

@GUELPH

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Hush, A Literary Career Is Born

Inspired by her mom, history student writes a children's book about the guiding strength of the mother-daughter bond

ATRIBUTE to a mother's love has become a book that families across North America can enjoy.

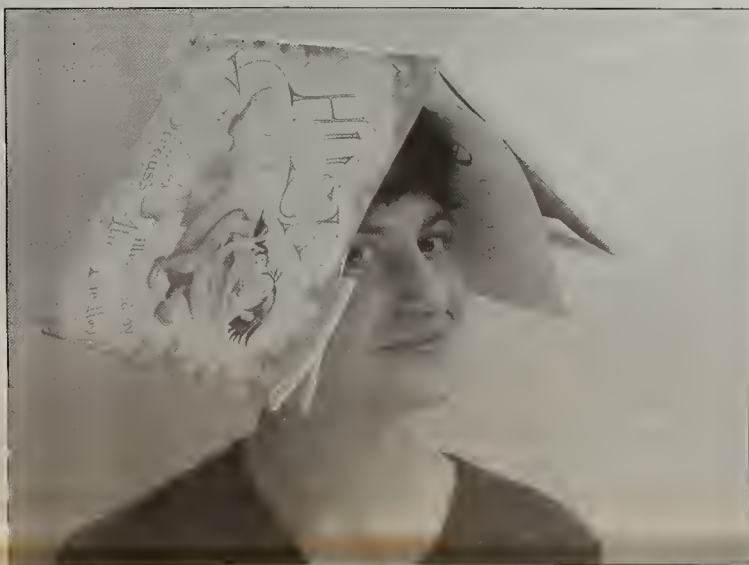
When U of G student Anna Strauss was in her last year of high school, she took a course that allowed her to focus on a single creative writing project. The result was *Hush*, a book that describes the guiding strength of the mother-daughter bond in the simple, rhythmic language of children's prose.

Strauss calls *Hush* "a raw, genuine story," inspired by her mother, Betty White Strauss. "I wrote the whole thing in about a week; it just came out."

Four years later, *Hush* is hot off the press at Toronto's Key Porter Books. In February, Key Porter will make 13,500 copies available to bookstores across Canada and 9,500 copies to booksellers in the United States. Planning is under way for a book launch in Strauss's Cabbagetown neighbourhood in Toronto and at U of G.

At a time when popular children's fiction seems to concentrate on "monsters, wizards and grand adventures," this book is for parents who "want something comforting to read to their children, something intimate to share with a child," says Imoinda Romain of Key Porter, who worked with Strauss on the project. "We're really happy to have a new young author under our wing."

The story, illustrated by Toronto artist Alice Priestley, is about a little girl called Sara who is comforted during life's growing pains by her



Anna Strauss's new children's book, *Hush*, will be in bookstores next month.

PHOTO BY DEAN PALMER

mother's soothing words and hugs. Sara grows up to have a little girl, Natalie, and the tradition of nurturing continues.

Sara is named for Strauss's maternal grandmother; Natalie is the name of her paternal grandmother.

"It's a tribute to the women of my family," Strauss says. "A huge part of my strength and confidence is because I've had a mother who's really been there for me. I feel really lucky."

Strauss approached Key Porter to

publish the book because they also publish work by her father, *Globe and Mail* science writer Stephen Strauss (the first recipient of U of G's Donner Foundation Fellowship).

She says that connection helped get Key Porter to look at the book, "but they chose it because they liked it."

For Strauss, the excitement of seeing her first book go into print has been accompanied by a lesson in the realities of the publishing business.

"I didn't write it to be published. It has been changed for mass production."

Some of those changes include the addition of a direct reference to Sara's marriage before the birth of Natalie and the replacement of Strauss's original artwork with Priestley's illustrations. The title of the U.S. version was also changed, to *Hush, Mama Loves You*.

"In the United States, they need something that grabs people's atten-

tion," Strauss explains. "I realize that with publishing, it's never fully you and so you compromise unless you self-publish. You accept that it's a business. That's reality."

And Strauss says she's happy with the result: "The editing process improved the story, and the illustrations are fantastic."

The book is dedicated to Strauss's parents ("I wouldn't have written it without my mom. I wouldn't be published without my dad's encouragement.") and to David Reed, the Jarvis Collegiate Institute high school teacher who taught the course that started it all.

"By allowing that sort of freedom in a classroom, he allowed me to create this," she says.

Now in her fourth year at Guelph, Strauss is majoring in history, with a minor in English. When she finishes her BA this summer, she plans to work on an organic farm in France for a year before deciding what's next.

Regardless of the path she chooses, she plans to keep writing short stories, poetry, songs and "bopefully, one day, a novel. Writing is one of the only things I have consistently worked on my entire life. It's really satisfying to write something that people can relate to, that touches them. Writing is such a different medium than speaking. Words, once said, memory changes them. Writing, it's there forever. It's part of what makes writing wonderful and scary."

BY STACEY CURRY GUNN

Memorial Service to Honour Former Chancellor

Pauline McGibbon was known for her ability to put people at ease and for the grace and charm she lent to campus events

AMEMORIAL SERVICE to remember the life and contributions of the late Hon. Pauline McGibbon, former Ontario lieutenant-governor and University of Guelph chancellor, will be held Jan. 31 at 4 p.m. at the Arboretum Centre.

Mrs. McGibbon died Dec. 14 in Toronto at age 91, following a lengthy illness. She was predeceased by her husband, Donald, in 1996 and leaves no family.

She served as lieutenant-governor from 1974 to 1980 and was U of G's chancellor from 1977 to 1983 — the first woman to hold either title. She also served as the first female chancellor of the University of Toronto.

In a joint statement, U of G Chancellor Lincoln Alexander, himself a former Ontario lieutenant-governor, and president Mordechai Rozanski expressed their "deep regret to learn of the loss of this great Canadian. The Univer-



PORTRAIT BY BARBARA BRAUNOHLER

sity of Guelph and the Province of Ontario greatly benefited by Pauline McGibbon's contributions."

Mrs. McGibbon was known for her ability to put people at ease and for the grace and charm she lent to events during her regular visits to U of G. In 1980, as she began her second three-year term as chancellor, the U of G newspaper the *News Bulletin* reported: "... it has been in the fulfilling of her duties at convocation ceremonies that Guelph's First Lady has won the hearts of many. Her genuine interest in each graduating student is matched only by her ability to make each ceremony a special occasion."

In addition to presiding over convocation, Mrs. McGibbon attended many Board of Governors meetings, as well as the City of Guelph's 150th-anniversary celebrations, the inaugural banquet for the Association for Women at the

University of Guelph and College Royal.

She also developed a reputation at Guelph for dramatic entrances and exits. She rode to her 1977 installation in a horse-drawn carriage and, in 1979, made a spectacular departure from convocation in a helicopter.

"The exit provided an exciting end to convocation as an estimated 1,500 visitors and bachelor of agriculture graduates surrounded the helicopter to wave goodbye," the *News Bulletin* reported.

Mrs. McGibbon also served as a governor of Upper Canada College, president of the Canadian Conference of the Arts, chair of the board of trustees of the National Arts Centre, and director of George Weston Ltd. and IBM Canada.

She was appointed a Companion of the Order of Canada in 1980 and named to the Order of Ontario in 1988.

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Birthday Gala Raises \$450,000 in Support of Chancellor's Scholarships

Tribute book planned as memento for Alexander, fundraiser for endowment



Members of the U of G community were among the more than 600 people who turned out at the Royal York Hotel Dec. 13 to help Lincoln Alexander, centre front, celebrate his 80th birthday and raise money for two U of G scholarships in his name.

PHOTO BY TOM SANDLER

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DEC. 13 GALA at Toronto's Royal York Hotel in celebration of chancellor Lincoln Alexander's 80th birthday — which also raised funds for new student scholarships at U of G in the chancellor's name — was one of the highlights of 2001 for the University, says president Mordechai Rozanski.

"It was a beautifully co-ordinated event," he says. "It combined serious moments that reflected on Lincoln's life and great contributions to Canada, with moments of humour, music and singing — the very things Lincoln enjoys."

More than 600 people — including prominent members of the political, business and academic sectors, members of the U of G community and students — attended the celebration, raising \$450,000 in support of two new Lincoln Alexander Chancellor's Scholarships. Among the University's most prestigious en-

trance awards, the scholarships will be worth \$20,000 each and will be paid over four years to two deserving students.

The awards are intended to enhance student diversity on campus, recognizing students of academic distinction who are aboriginal, persons with a disability or members of a visible minority and who have made significant contributions to their schools and communities and demonstrated the potential to become leaders in society. They will be offered for the first time in fall 2002.

Prof. Rob McLaughlin, vice-president (alumni affairs and development), says U of G now aims to endow the scholarships and, as such, hopes to raise another \$350,000 through the upcoming campus community campaign and through the production of a tribute book for the chancellor.

"The book — a handsomely pro-

duced memento for the chancellor — will contain tributes from friends, colleagues and admirers," he says. All members of the U of G community are invited — and encouraged — to participate in this treasured memento by adding their tributes."

Cost ranges from \$100 per line to \$2,000 for a half-page in the book, with all proceeds going to the Chancellor's Scholarships. The deadline for submissions is Feb. 28, and a tax receipt will be issued for the maximum allowable contribution to this project.

"This is our chance to show the chancellor how much we appreciate him while helping to support a cause that is very dear to his heart," McLaughlin says.

To place a tribute, call Ext. 6142 or send an e-mail to sharrop@alumni.uoguelph.ca.

BY SUZANNE SOTO

Correction

IN THE DEC. 12 ISSUE of @Guelph, the article "Canada Research Chairs to Two" incorrectly reported that U of G chairs had been awarded for seven years to Prof. Jonathan LaMarre, Biomedical Sciences, and for five years to Trent University history professor Douglas McCalla. The numbers should have been reversed.

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HEAD COACHES NAMED

The Department of Athletics recently named new head coaches for the football and baseball Gryphons. Tom Arnott, who joined U of G in February after an 11-year career at York University that saw him receive OUA Coach of the Year honours twice, is the new head football coach. A B.Sc.(H.K.) graduate of Guelph who played for the Gryphons from 1973 to 1977 and was named Wildman Trophy winner in 1976, he has been acting head coach since June. The new head baseball coach is Kirk McNabb, who has been an assistant coach for the past two seasons. A graduate of Mansfield University in Pennsylvania, he has a baseball background as a player, coach, instructor and director in Guelph and the northeastern United States.

CSA LAUNCHES WEB SITE

The Central Student Association (CSA) has launched a new interactive Web site at www.csa.uoguelph.ca. CSA communications commissioner Todd Schenk says the site is designed to give U of G students easy access to information about services, support and advocacy and to enable them to connect to CSA clubs, provide feedback and interact with each other. "This site is not merely a profile of the organization or a directory of people and services — it is a living portal," he says. Webmaster is Dave Tarc, a computing science and philosophy student, who can be reached at csa-web@uoguelph.ca.

SENATE SEEKS NOMINEES FOR TWO STAFF SEATS

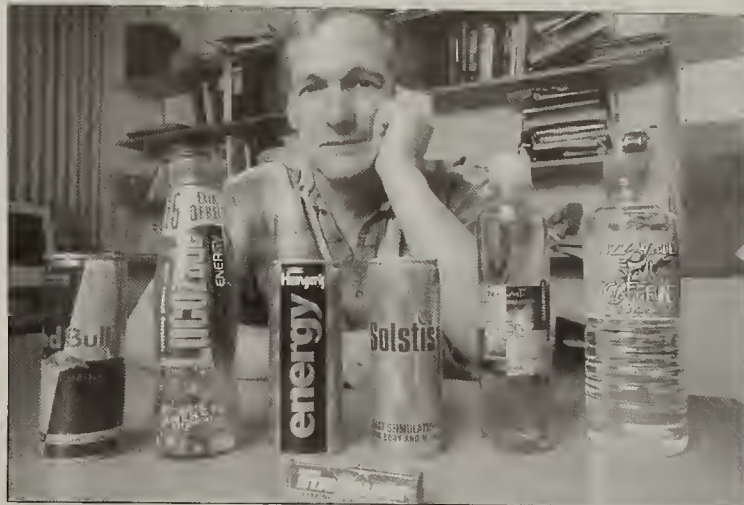
Senate is calling for nominations for two staff members to serve three-year terms running from Sept. 1, 2002, to Aug. 31, 2005. Any full-time non-teaching staff member is eligible to stand as a candidate for these seats or to nominate another candidate, unless the member is registered for a degree or diploma at U of G. A general election will be conducted by the Senate Office. The deadline for nominations is Feb. 1. For more information, call Mollie McDuffe-Wright at Ext. 6760.

NOMINATIONS SOUGHT FOR ALUMNI AWARDS

The U of G Alumni Association invites nominations for its three annual awards of excellence — Alumnus of Honour, Alumni Medal of Achievement and Alumni Volunteer Award. Nomination deadline is Feb. 8. Nominations are also sought for the OVC Distinguished Alumnus award, with submissions due Feb. 23. Nomination forms for all four awards are available from Andrea Pavia at Ext. 4430. In addition, HAFAs seeks nominees for the George Bedell Award of Excellence. Deadline is Feb. 28. For more details, call Laurie Malleau at Ext. 2102.

Human Biologist Studies Link Between Caffeine, Diabetes

Research could lead to important potential treatment for diabetics



Prof. Terry Graham is exploring the relationship between caffeine, found in drinks such as coffee and these boosting beverages, and type-2 diabetes.

PHOTO BY MARTIN SCHWALBE

CANADIANS RESOLVING to cut their caffeine intake may reduce certain health risks as well, especially if obesity and lack of exercise play a role in diets that are high in caffeine.

Prof. Terry Graham, Human Biology and Nutritional Sciences, is part of a three-year tri-university effort researching the link between caffeine use and type-2 diabetes, the most common form of diabetes in Canada.

"The statistics in Canada and the western world are startling," says Graham. "Cases are becoming increasingly common and in younger age groups."

Type-2 diabetes is now common among people in their 40s, and increasing obesity in children suggests it will continue to affect younger age groups, he says.

Type-2 diabetes accounts for 90 per cent of diabetes in Canada. Those with the disease can still produce insulin — the body's blood glucose regulator — but Graham says they can't produce enough to "get the job done" and often have to take

drugs to help manage blood sugar levels. He says the two biggest risk factors are inactivity and obesity.

"We're finding caffeine can have an unhealthy effect on insulin levels for people already at risk."

Graham's concern is based on his previous studies involving caffeine's impact on exercise metabolism using two groups of university-aged men — one group called "lean" and the other "obese." The subjects were tested using an oral glucose tolerance test, conducted with and without prior caffeine ingestion. This work was performed by graduate students Sara Chown, Heather Petrie and Laura Belfie.

"Ideally, you want to produce the least amount of insulin to get your body's glucose level down to normal," says Graham. "We found that obese individuals have a resistance to insulin, which means they require higher levels of insulin to adjust their glucose levels. When given caffeine, their insulin levels go through the roof."

This research focused on short-term effects of caffeine, but the new

project will study some long-term effects surrounding caffeine and type-2 diabetes. It will involve obese and lean individuals between the ages of 40 and 60, with and without diabetes.

Among other long-term effects, the researchers will be looking for signs that the body adapts in habitual caffeine users.

"Caffeine is often thought of as a benign drug," says Graham, "and in many ways, it is. But from what we've seen so far, this research could lead to important potential treatment for diabetics."

Graham's research, in addition to involving a number of graduate students, involves research teams at two other Canadian universities (headed by Bob Ross and Bob Hudson at Queen's University and Arend Bonen at the University of Waterloo) and Mary Van Soeren, formerly of Guelph General Hospital.

This research is sponsored by the Natural Sciences and Engineering Research Council.

BY LISA CAINES
SPARK PROGRAM

Lab Services, Elanco Join Forces

WORLD-CLASS feed analysis is central to a new partnership between Laboratory Services and Elanco Animal Health, a global research-based company that produces products to improve the health of animals. The new initiative builds on Elanco's presence in the Research Park and its long-standing support of research at U of G, says John Lynch, marketing manager for Lab Services.

"It gives the University new sources of revenue to support Laboratory Services, while Elanco is able to free up lab resources for new product development," he says. "Previously, Elanco's Canadian cus-

tomers were sending samples for testing to the company's central lab."

Lab Services is the designated analytical service arm of U of G that not only supports government and academic needs, but also provides advanced analysis to enhance the competitiveness of agricultural and food companies operating in Canada. It was selected by Elanco through a competitive process involving three other labs.

"We chose Laboratory Services because of the people, the facility and our successful long-standing association with the University of Guelph," says Paul Dick, Elanco's research manager for technical service

and quality control.

The company's relationship with U of G began in 1990. Since then, Elanco has dedicated \$1.2 million to a range of research programs. Their close involvement with Lab Services has also resulted in closer working relationships with the Natural Sciences and Engineering Research Council, OVC and OAC.

"We're all benefiting from our shared commitment to research and development via the exchange of ideas, concepts and synergies," Dick says.

BY ANDREW BEARINGER AND
LISA CAINES
SPARK PROGRAM

PEOPLE

PROF GIVES TALKS IN KRAKOW

Prof. David Douglas, Rural Planning and Development, currently co-ordinator of the Krakow semester, presented a paper on "Rural Development in Canada: Experience, Prospects and Challenges — International Perspectives" to the recently established Canadian studies program in the Institute of Regional Studies at Jagiellonian University in Krakow. He also conducted two classes at the Agricultural University in Krakow and presented the School of Rural Planning and Development as a case study in professional development and occupational orientation at a Conference on Labour Force Preparedness for Poland's eight agricultural universities.

NASBY CURATES INUIT ART EXHIBIT FOR AUSTRIA

Macdonald Stewart Art Centre director Judith Nasby is curating the first exhibition of Canadian Inuit art to be shown in Austria. The exhibition, to be staged at the Institut für Kunstgeschichte der Leopold-Franzens-Universität in Innsbruck, consists of fabric works and drawings from the art centre's internationally recognized Inuit art collection. Nasby will also participate in the international symposium "Cultural and Knowledge Transfer Between Austria and Canada, 1990-2000" organized by the Canadian Studies Centre of the University of Innsbruck in celebration of its fifth anniversary in May.

IN MEMORIAM

SHIRLEY GOEMANS

Shirley Goemans, a staff member in the Veterinary Teaching Hospital, died Dec. 15. She had been employed at the University since 1989. She is survived by her husband, Peter, and one son.

DONALD PEARSON

Donald Pearson, a retired police sergeant with Security Services, died Dec. 8 at age 71. He had been employed at the University for 25 years, retiring in 1992. He is survived by his wife, Helen, six stepchildren and 10 grandchildren. A tree will be planted in his memory next September in the Wall-Custance Memorial Forest at the Arboretum.

PAT STRONGMAN

Pat Strongman, a staff member in Student Financial Services in the Office of Registrarial Services from 1980 to 1997, died Dec. 25 at the age of 69. She is survived by two children, Zoe and Graham, and two grandchildren.

JEREMY VANDERENDE

Jeremy VanderEnde of Blenheim, a first-year diploma in agriculture student at Kemptville College, died suddenly Jan. 11 as the result of an accident. He was 18. He is survived by his parents, Harold and Marg, two sisters and a brother.

Caution Against Theft Urged

ARASH OF THEFTS on campus has Security Services urging members of the University community to be vigilant about protecting their belongings.

Hardest hit by the thefts has been the Athletics Centre, with the men's change room being the primary target, says Keith McIntyre, director of Security Services. Theft is being reported there almost daily, he says, and losses have included watches, cash, debit and credit cards, cheque-books, clothing, shoes, gym bags and Express cards. Some items have turned up at local pawnshops, and some of the stolen cheques and credit cards have been used.

A number of the thefts have occurred when someone has left their belongings in an unlocked locker or

has left a gym bag unattended for a few minutes while using the shower. But even those who conscientiously lock up their belongings have not been immune, says McIntyre. On numerous occasions, locks have been cut right off or locker doors have been broken into.

"People who use the Athletics Centre are naturally upset when they have items stolen from their locker or gym bag," he says, "and we are doing everything we can to catch the thief or thieves responsible for these crimes. But the people who use the Athletics Centre must also do their part to prevent these thefts by not bringing valuable items to the gym."

Theft has also been on the rise recently in the MacKinnon Building and in the U of G Library, says McIntyre.

"People leave their offices unlocked or their bags and knapsacks unattended for just a few moments while they go to the washroom or go looking for a book in the stacks, and it only takes those few moments for a thief to strike."

He urges everyone working or studying in these buildings — and in all other buildings on campus — to keep their offices locked and to make sure that valuables are secured or kept in sight at all times. He also asks everyone to be alert to what's going on around them and to report anyone loitering or acting suspiciously in a building.

For more information, call Security Services officer Jim Armstrong at Ext. 2245 or community liaison officer Robin Begin at Ext. 6261.

Rezoning Application Set for OMB Hearing

Majority of land would be used as office/research park

A UNIVERSITY OF GUELPH rezoning application for land along Stone Road is slated to go before the Ontario Municipal Board (OMB) in February, although the City of Guelph has requested the hearing be deferred.

The application concerns a 31-acre parcel of land between the new Canadian Tire and Edinburgh Market Place. The land is bordered to the north by the Dairy Bush and the University's family residences on College Avenue.

The University will ask the OMB to allow 18.5 acres to be rezoned for institutional/research park development and 12.5 acres for institutional/research park and community commercial use.

Guelph city councillors voted against the rezoning proposal Dec. 17, a reversal from the council's past position, which supported the issue.

"We are disappointed by the vote," says Nancy Sullivan, vice-president (finance and administration). "City council's focus unfortunately seems to be on the retail component of the proposal, whereas the majority of land would be used as an office/research park, similar to our Research Park on the south side of Stone Road."

The 12.5-acre portion of land includes 8.8 acres that is intended to accommodate the relocation of the Zellers department store from the Stone Road Mall. That would allow the Hudson's Bay Company to fill the vacated Zellers location in the mall with a two-storey Bay store as part of a total \$70-million investment in the retail area.

If the OMB approves the rezoning application, the University will continue to own the land and lease it to Zellers and other parties, with all revenue going into the University's endowment (Heritage Trust Fund).

Since the late 1980s, Board of Governors has earmarked these University lands for development.

"Board of Governors has deemed this land to be surplus to the University's needs," says Sullivan. "Board members are satisfied there is adequate land available as we grow for teaching and research purposes and for residences."

In the current funding environment for post-secondary education, "we do have to find innovative ways to support this institution's strategic

directions," she says.

The endowed Heritage Fund, established in 1991 and now worth \$38.5 million, receives all proceeds from the University's real estate activities — including the long-term leases for Edinburgh Market Place, the Research Park and the Village by the Arboretum.

The Heritage Fund — overseen by the Board of Trustees, a B of G committee — is used to support one-time strategic initiatives. It is not used to cover ongoing operating costs.

In the last decade, the University has received just over \$9 million from the Heritage Fund, which has supported initiatives such as faculty start-up costs; the development of TRELLIS, the tri-university library system that gives students access to the collections at Guelph, the University of Waterloo and Wilfrid Laurier; the startup of the Learning Commons in the McLaughlin Library; and upgrading of the student information system and the financial information system.

Without the Heritage Fund, "we would have had to fund these projects out of operating funds, and that would have meant other fiscal challenges," says Sullivan.

Some retail development is necessary to help offset the high costs of servicing land slated for research use, says John Armstrong, director of the University's Real Estate Division. "We have only about five acres left for development in our Research Park. When the clients express interest, you want to be ready to respond to them."

The Dairy Bush area, used for teaching and research, and a pedestrian route from campus to Stone Road Mall would remain and be well buffered from the Zellers development, says Armstrong. In addition, an alternative location has been found in Wellington Woods for family housing market gardens that are currently located on a portion of the land.

The OMB will decide Jan. 25 whether or not to grant the city's request for a deferral. The city made the request to allow preparation time for a planning consultant it has recently hired to represent its position.

BY STACEY CURRY GUNN

Trees to Be Removed

THREE DEAD or dying trees on campus are slated to be removed later this month. The trees — a pine at the top of the steps by the MacKinnon Building, a pine on Creelman Plaza between Creelman and Mills halls and a maple near McNally House on Gordon Street — are either dead or structurally unsound and pose a risk to passing pedestrians, says John Reinhart, head of Grounds.

All of the trees will be replaced, he says, but the exact location of the new plantings is to be determined on the basis of longer-term landscape planning currently under way.

Later in the winter, a number of other dead or declining trees will be removed as well, he adds. These include a total of eight spruce trees located on McGilvray Street north of the Equine Research Centre, in parking lots 23/24, by East Residences and south of the Quad Park; a birch

tree in the University Centre loop lawn area and one in front of the President's House; a locust tree north of the soccer field on Stadium Walk; a crabapple tree on Dundas Lane; and a total of five maples on Powerhouse Lane and in P.2. Replacement plantings will be made.

Another 18 maples along Winegard Walk are also slated for removal. The trees along this walk have been regularly replaced over the years because they suffer from the effects of vandalism, salt and heat from the tunnels below, Reinhart says. "Continuing to replace the trees is no longer viable. Instead, we are looking at ways through the campus master plan to enhance the walkway."

For more information, call Reinhart at Ext. 2053.

Meanwhile, the City of Guelph will remove two large old trees on the Macdonald Stewart Art Centre property this winter. The trees have

been in a state of decline for a number of years, says Al Berberich, horticulture superintendent with the Parks Department, and several dead limbs have been removed over the last couple of years.

"Now the condition of the trees is such that we believe they should come down before they fall and hurt someone or damage the surrounding sculptures," he says.

In anticipation of the trees' gradual decline, the city had previously planted two new trees close by to help fill the void when the older trees are removed, he says. In the spring, the city will evaluate whether additional trees should be planted.

The two trees slated for removal are located behind the art centre's parking lot. For more information, call Berberich at 837-5626.

Happy 80th Birthday Linc

On the occasion of the Chancellor's 80th Birthday, the University of Guelph will officially launch the Campus Community Campaign

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the campus community campaign for the University of Guelph

Student Dies in Accident

AKEMPTVILLE COLLEGE student was killed in a single motor vehicle accident Jan. 11 in Kemptville. Jeremy VanderEnde, 18, of Blenheim, Ont., died after the car he was driving struck a building at approximately 1 a.m. He was a first-year student in Kemptville's diploma in agriculture program and lived in residence.

"The faculty, staff and students

of Kemptville College deeply regret the tragic death of Jeremy VanderEnde," says college director Bill Curnoe. "We send our heartfelt condolences to Jeremy's family and friends and offer them our support at this very difficult time."

Grief counselling has been offered to members of the Kemptville College community, and residence staff are supporting students.

OMAFRA Partnership Is 'Key Element' in University's New Vision for Future

Funding supports leading-edge research, educational programs and laboratory services

THE RENEWAL of the enhanced partnership agreement between U of G and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) is a "tremendous opportunity to renew our vision for agri-food research, education and technology transfer in support of innovation and the public good," says president Mordechai Rozanski.

By April, the University and OMAFRA will redefine how they will work together for the next five years. It's work that has enormous impact, not only on Ontario's \$9.54-billion agri-food industry, but also on the health and well-being of the province's people, animals and environment.

When the contract took effect April 1, 1997, Rozanski called it an "unparalleled example of government/university interaction."

The agreement — which builds on a more than 30-year relationship — has since delivered numerous benefits for Ontario, says Prof. Alan Wildeman, vice-president (research).

"Today, the University is at the forefront of a new era of advanced technological research that merges agri-food, nutrition, health and pharmaceutical research with advanced information technologies," he says.

Rozanski sees the renewal of the enhanced partnership as a "key element" in a new vision that will build on the University's historical strengths in agri-food and veterinary medicine.

"Guelph's expertise in the plant and animal life sciences, and our culture of innovation and application, allows us to solve real-life problems and improve the quality of people's lives," he says.

"We are all working very hard in these negotiations to advance these goals. There are significant budget challenges. But we are dedicated to overcoming these challenges because the enhanced partnership is such an important element in our ability to make important discoveries and deliver valuable applications that benefit the citizens of this province and beyond."

The funding that OMAFRA transfers to the University (\$50.5 million in 2001/2002) supports research, education and laboratory services.

RESEARCH

About \$38 million was earmarked for research in 2000/2001.

The University and OMAFRA work together to establish research priorities that become deliverables in the contract. The objectives relate to human, animal and plant health; rural communities; environmental management; and food safety.

"Research — both basic and applied — keeps our agri-food sector on the leading edge," says Wildeman. "It is primarily at universities that basic or curiosity-based re-



Fourth-year veterinary student Jackie Gordon examines a cow as part of her training in large-animal medicine. OMAFRA funds clinical education through the enhanced partnership contract with U of G.

PHOTO BY MARTIN SCHWALBE

search is encouraged and given long enough timelines to nurture new ideas that lead to groundbreaking advances."

U of G research includes the creation of new commodities that have health-promoting or disease-preventing properties. These "next generation" products — nutraceuticals, antibodies and vaccines — have the potential to open new agricultural markets and could boost rural and agricultural economies.

For example, one research group has found a way to incorporate DHA into milk. DHA is an important omega-3 fatty acid for brain and retinal development, and it may lower the risk of cardiovascular disease.

Another team is finding ways to extract important biochemically active compounds from Ontario crops, such as betacarotene from carrots and tomatoes, phytoestrogens from soybeans and flavours and fragrances from flowers. Unlike conventional extraction techniques, their process extracts the valuable substances without generating toxic residues and hazardous waste.

Researchers are also investigating methods of producing antibodies in plants such as tobacco and eggs. "Plantibodies" produced in tobacco could be used to detect food- and water-borne diseases. Researchers hope the egg project will lead to cheap and abundant supplies of a vaccine for rotavirus, considered one of the most serious diseases in the world, with up to three million children dying from it each year.

OVC faculty are also advancing human health through comparative medical research on reproductive technologies, genetic diseases, cancer, radiation treatment and antibiotic resistance. One current project involves testing a vaccine for cows that could eliminate the deadly *E. coli* O157:H7 bacterium. Work is also under way on technology to better treat joint injuries in horses and peo-

ple, and to prevent the early onset of arthritis.

A number of research efforts are focused on strategies that will lead to more efficient and environmentally friendly agricultural methods. For example, an integrated pest management treatment program for apple growers is using a variety of environmentally friendly products to save producers from orchard losses, significantly reducing the amount of chemical pesticides needed to maintain a healthy and profitable crop.

EDUCATION

OMAFRA funding also supports educational programs, including the University's agri-food diploma programs at OAC and Ridgetown, Kemptville and Alfred colleges, and OVC's Veterinary Clinical Education Program (VCEP).

"Through training programs and an investment in research, new generations of highly qualified people will play important roles in the development of the agri-food industry," says Wildeman. "Universities have a crucial role to provide a continual source of skills and ideas, which contribute to a healthy economy, society and environment."

OVC dean Alan Meek says the VCEP funding "is critical to our ability to provide our students with es-

sential clinical education that serves Ontario's food-animal industry and the animal-owning public at large."

Recent events have shown the vital importance of veterinary colleges and veterinarians in Canada's infrastructure for public health protection, including regulatory agencies, food safety, wildlife and environmental health and medical research, he notes.

Veterinarians promote the quality and safety of food through proactive means, such as animal health programs that decrease the use of antibiotics.

Veterinary practitioners and researchers also play a key role in disease surveillance and outbreak response. "They are the first line of defence against threats to human and animal health, such as West Nile virus, mad cow disease, *E. coli* contamination and other diseases that can be transmitted through the food chain," Meek says. "Without effective and adequate training programs, this critical link in our defence of public and environment health would be lost."

LABORATORY SERVICES

The safety of the provincial food supply also relies on U of G's Laboratory Services division, which was transferred from OMAFRA in 1997

under the terms of the enhanced partnership.

OMAFRA uses Lab Services for analysis that meets the requirements of various provincial acts and regulations covering health and safety standards for food production.

"We strive to ensure that the food produced and sold in Ontario is safe to eat," says general manager Patricia Collins. "We are testing products on a daily basis that are entering or already in the food supply. That includes meat, fruits, vegetables and dairy products. Every year, we test 285,000 dairy samples alone."

OMAFRA also uses data from Lab Services to scan for disease outbreaks.

"Through our diagnostic services, we are actively monitoring the health of the herds in the province to watch for potential outbreaks that would represent a human health hazard or be economically devastating to a sector of the industry," Collins says.

Lab Services also provides OMAFRA with environmental monitoring services, including identifying plant diseases, soil testing and monitoring the quality of water in the Great Lakes.

The individual successes of the research, education and laboratory services under the OMAFRA contract collectively result in synergies with far-reaching effects, says Wildeman.

The partnership with OMAFRA is a major factor in the growth of the research and development cluster around U of G, he says. The University now has more than 35 external partners from government, industry and academia, and 25 research centres and institutes on campus.

Ultimately, Rozanski says, the goal is "to improve the quality of people's lives by creating safe and high-quality food, by advancing health and well-being, and by creating high-value industrial bioproducts that contribute to a clean, sustainable environment."

"The University and OMAFRA have achieved a great deal in the last five years through the enhanced partnership, and the renewal of the agreement this spring will enable us to focus on future innovation."

BY STACEY CURRY GUNN

Lectures to Focus on Work/Life

UOF G'S Centre for Families, Work and Well-Being is co-sponsoring a three-part lecture series beginning Jan. 25 on "The Challenge of Work/Life Integration in Canada." The lectures run from 11 a.m. to 2 p.m. at the Homewood Health Centre. Cost is \$150 for the series or \$60 per session and includes lunch.

The Centre for Families, Work and Well-Being strives to make the link between what happens in the

workplace and the effects on individuals, families and communities, says director Linda Hawkins.

"This lecture series allows us to share what we know, to reach out to human resource professionals and others who can use our academic research in a practical and demonstrative way. We wanted the series to cover a wide range of issues and offer a picture of what's happening across the country."

First up Jan. 25 are Prof. Donna Lero, Family Relations and Applied Nutrition, and Nora Spinks, president of Work-Life Harmony Enterprises. Lero will discuss "Work, Family and Well-Being in Canada." Spinks' topic is "Canadian Employers Respond to Work/Life."

For more information about the series or registration details, call 1-800-445-1798, Ext. 113.

A Question of Integrity

New initiatives aim to protect academic integrity at the University of Guelph

JUST ABOUT EVERY PROFESSOR has a favourite story to tell about a student who tried to pass off another's work as his or her own. For drama professor Ann Wilson, it's the "Love Story" episode, where a dating couple wrote one essay together and each turned it in under their own name.

It was when Wilson was teaching one section of a two-section course at York University. "I happened to be in the office of my colleague who was teaching the other section, when I glanced down at a pile of essays on the desk and noticed that the paper on top looked familiar."

It turned out to be the exact same essay another student had submitted in Wilson's section of the course. "We figured out the two students were going out. I guess they decided they would write one essay and share it between the two of them. Now that's love," she says with a chuckle.

But Wilson and other professors at U of G and across Canada agree that academic misconduct such as plagiarism is no laughing matter. This month, 47 economic students at Simon Fraser University were accused of cheating on an assignment. Last year, more than 120 students at the University of Alberta were charged with academic misconduct, with 45 of them being suspended or expelled. The University of Toronto is currently investigating 150 students for academic misconduct.

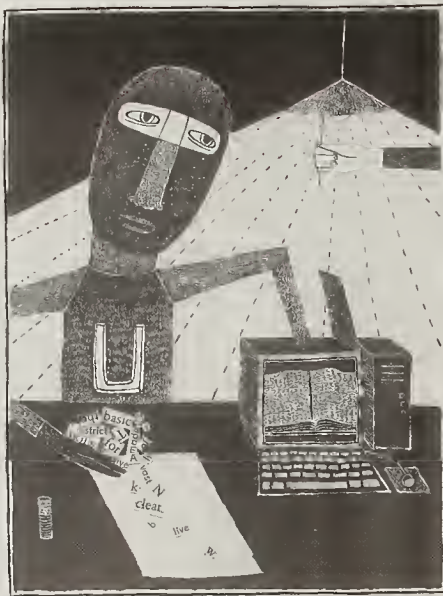
U of G administrators and faculty say it's difficult to know how widespread it is at Guelph and how to determine if students know what constitutes plagiarism—or, if they know, whether they consider it academic misconduct. And even if a professor is pretty sure a paper she or he is grading includes plagiarized sections, how does one verify it or even find the time to take such action?

These issues are just some of the topics Teaching Support Services (TSS) and the Learning Commons, in conjunction with a newly formed Academic Integrity Committee, hope to tackle with a series of initiatives aimed at protecting academic integrity at Guelph. They include:

- surveying professors, teaching assistants and students this month to find out how widespread the problem is at Guelph, how concerned people are, the level of understanding and acceptance of policies and procedures, and suggestions for dealing with issues;
- continuing to analyse literature that looks at academic misconduct at other North American universities;
- pilot testing software that scans papers for plagiarism; and
- making academic integrity the focus of the 15th annual Teaching and Learning Innovations Conference this spring.

"I believe these initiatives will put Guelph at the forefront of dealing with this issue," says TSS director Prof. Julia Christensen Hughes, who, along with the Learning Commons and Academic Integrity Committee, spent more than a year reviewing the literature and exploring how academic misconduct is dealt with at other North American universities, at the request of the Vice-President (Academic)'s Council.

The committee released the findings of this research last month. The report included some disheartening statistics, such as: 84 per cent of university students in North America engage in some form of academic dishonesty; Web sites offering term



papers receive as many as 80,000 hits a day; and students are more likely to engage in such misconduct if they think their peers are doing the same and getting away with it.

"The research also shows that 40 to 60 per cent of faculty who have seen academic misconduct say they have chosen to do nothing or little in response," says Christensen Hughes. "That's why we want to engage our faculty in the process to find out where they feel they need more support. And that's why we want to involve our teaching assistants and students as well, so we can understand what the issues are from their perspective and what help we can provide. The University has well-defined policies in this area, but it seems they are not always followed. We need to understand why."

(Information about U of G's policies is available on the University Web site at www.uoguelph.ca/GraduateStudies/calendar/archive/19982000/genreg/misconduct.html.)

Later this month, TSS will send out three different e-mail surveys to faculty, teaching assistants and students, asking them about their perceptions of academic integrity at Guelph. The survey has been endorsed by both the U of G Faculty Association and CUPE 3913, which represents teaching assistants. Data will be sorted by college and will become part of a larger study being conducted by Duke University's Center for Academic Integrity in North Carolina.

"No one at Guelph will see any individual responses—they will be sent directly to Duke for aggregation," says Christensen Hughes. "Confidentiality is absolutely assured."

From an institutional point of view, she says, "it's critical

that we understand this issue and develop plans and strategies for dealing with it effectively."

Prof. Maureen Mancuso, associate vice-president (academic), who has been working with TSS and the Learning Commons on the initiatives, adds that the main reason for doing the survey is to provide real data about attitudes at Guelph. Previous reports about academic misconduct have varied considerably from year to year.

"There is concern among both faculty and students about maintaining academic integrity," she says. "Data from other sources indicate there is an erosion of academic integrity across North America and that student attitudes about what is 'acceptable' behaviour are changing. We want to collect information specific to Guelph, which can be reviewed and understood in light of the data from other jurisdictions."

Provost Alastair Summerlee says he's pleased that Mancuso, TSS and the Learning Commons have launched these initiatives. "It's very important that we support our faculty and students in this area of concern," he says.

The survey results will be shared this May at TSS's Teaching and Learning Innovations Conference, which is being co-hosted by the Learning Commons and McLaughlin Library. At the conference, faculty, students and teaching assistants will be able to comment on the survey and make recommendations for enhancing academic integrity. The event will also include workshops and two keynote speakers: Don McCabe of Rutgers University, who has done much of the existing research on academic misconduct in North America, and Robert Harris, author of *The Plagiarism Handbook: Strategies for Preventing, Detecting and Dealing With Plagiarism*.

In the meantime, TSS and the Learning Commons will continue to provide other support programs and educational materials aimed at maintaining academic integrity, including developing a Web site and pilot testing the software program Turnitin, a Web-based service that identifies essays that may have been purchased through "paper mills" or sections of papers that may have been plagiarized from the Internet.

"You submit a paper electronically, and it takes about 24 hours to get it back," says Pat Thompson, who is overseeing use of the software for TSS. The papers come back with questionable sections highlighted in colour and a notation about the source of the information.

A second phase of the pilot test is scheduled for this semester. For more information about the program, visit the Web site www.turnitin.com or call Thompson at Ext. 2965.

Having options and guidance about academic misconduct is welcomed by professors such as Wilson. "I think students plagiarize for many reasons," she says. "In some cases, they do it out of desperation. Others plagiarize because it's the easy thing to do. I also think some students genuinely don't know what is acceptable and what is not."

For these reasons, she adds, professors have an obligation to their students to make academic misconduct difficult. "Part of the solution involves designing assignments that are specific in addressing concerns particular to the course and issues that have been raised in class."

BY LORI BONA HUNT

Shedding Light on Plagiarism

SOME U of G professors are taking extra measures to cut down on academic misconduct, including giving students "quizzes" designed to teach them what constitutes plagiarism and checking papers with innovative "plagiarism-detecting" software programs.

"We've had papers submitted that we know are 98-per-cent plagiarized," says Sheri Hincks, who along with April Nejedly teaches the zoology distance education course "Humans in the Natural World."

"It's a first-year science course for non-science majors," says Hincks, "so I'm not sure if the students don't know when they're plagiarizing something or if they just do it and know it's wrong. It is just so easy to go on the Web and copy, click and paste something into a document."

She and Nejedly have designed their

course to include assignments and quizzes intended to teach students about plagiarism. They adapted it from a module put together by Dawn Larson, an instructor in the Department of Molecular Biology and Genetics. It includes case scenarios that ask the students to decide whether plagiarism was involved. When they respond, the program offers immediate feedback and information. The students then complete an assignment that involves summarizing scientific articles available on the Internet, in the popular press and in a field journal, and they must submit the sources' Internet addresses with their assignment.

When students turn in work that Hincks and Nejedly consider to be plagiarized, the work is submitted to the chair for academic review.

"Most students don't make the same mis-

take again," says Hincks. "Most of them are really quite concerned and didn't realize what they were doing is wrong."

Zoology professor Steve Scadding, acting director of Teaching Support Services, has taken similar steps in his courses, especially those taught via distance education. He uses a software program called EVE2 to find what he calls "cut and paste" plagiarism, and he tells his students in advance that he will be using the software.

"Many of these students are writing a university-level essay for the first time," he says, "and they may be cutting and pasting things from articles they find on the Internet. Maybe it's something they got away with in high school, or maybe they waited until the night before the assignment was due and it just seemed easier than writing their own essay."

But the same Internet tools that make academic misconduct simpler nowadays also make catching it easier, says Scadding. The software program that he uses scans Web sites and pages looking for "matching text strings."

"It locates the material using many of the same Internet tools and search engines that the student used to find the material in the first place."

It can take up to 15 minutes per essay, which equals about an additional 40 to 50 hours of work per course. But Scadding says he realized the importance of being proactive when he became a member of U of G's Academic Integrity Committee.

"My main motivation is in defence of the students who do things honestly and are preparing essays on their own," he says. "I want to protect academic integrity."

A COMMUNITY EFFORT

Four members of the University volunteer to lead the campus community campaign

LATER THIS MONTH, U of G will launch a campus community campaign. This endeavour is part of Guelph's current efforts to expand bursaries and scholarships to support accessibility and the education of the next generation of students; to help attract outstanding talent to the campus; and to raise funds to build new and better facilities for staff, faculty and students. These members of the U of G community have volunteered to lead the campus community campaign.

KENDA SEMPLE

During her 25 years with U of G, Kenda Semple, a custodian with Physical Resources, has probably been in every one of the close to 150 buildings on campus.

"I don't think there's a place that I haven't worked in or done something in, whether it was watering the plants inside or shovelling the snow outside," Semple says with a laugh, adding that, as a result, she knows "everybody."

She joined the University in September 1976 as part of the Housekeeping Unit. Her job was to clean the University Centre on the overnight shift from 10:30 p.m. to 7 a.m. "I had no children at that time, so it wasn't that hard for me to do it."

In 1980, she moved to the Grounds Department, where she was first a groundskeeper and then, after completing a home gardener course through Independent Study, a gardener. When she wanted a change 11 years later, she joined the campus maintenance truck pool. Two years later, however, she decided to go back to Housekeeping, where she's been for the past eight years. Along the way, Semple also found time to volunteer with the University's Educational Equity Committee.

Her knowledge of the campus — and its people — was behind her decision to co-chair the staff portion of the campus community campaign. Another reason, she says, is that her work on campus has given her a real appreciation of U of G's students and of the University itself as a fair and generous employer.

"Part of my job involves cleaning classrooms, and I've realized that classes are too overcrowded," she says. "The University, which provides thousands of people with stable and quality employment, needs our financial support to keep growing and adding the space we all need, whether we're students, staff or faculty."

THOM HERRMANN

Prof. Thom Herrmann, Psychology, says he's happy to be a "cheerleader" for the campus community campaign because he's worked here for 30 years and he believes in U of G. "I'm a lifer. I've seen this place grow and I'm dedicated to help it grow in the future. If we don't believe in this place, why should anyone else? Guelph is a first-rate university. It's not perfect, but it's an institution striving to become better in every way."

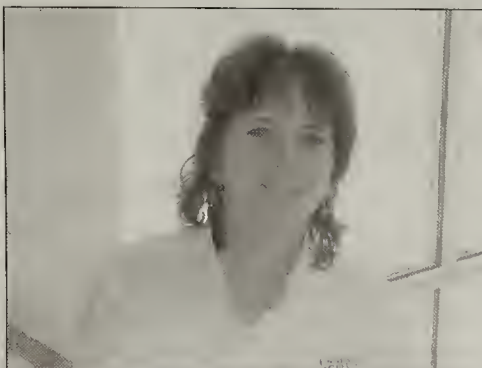
Herrmann says when he started at Guelph it was known only as an agricultural school — "cow college" — and a place with a veterinary school.

"Since then, it's become a well-rounded, first-rate university that undergraduates and graduates from all over Canada and the world come to."

He notes that U of G can continue to grow "only if we're able to find the mental and physical resources. 'Common sense' governments don't seem to be willing to put all the money necessary forward, and I'm not sure industry contributions are the way to go. The donor method is extremely important."

Herrmann has spent two decades working on behalf of faculty through the U of G Faculty Association (UGFA). The better part of that time, he has been UGFA's chief negotiator; now, he's the association's president. He was also head of Teaching Support Services in the mid-1980s.

"I've spent much of my time negotiating — and fighting — with the administration," he acknowledges. "I'm not someone who dreams of advancing administratively. I've agreed to support the campaign for the same reason I'm in the Faculty Association — to work to make things better."



MARY BEVERLEY-BURTON

Retired zoology professor Mary Beverley-Burton's definition of retirement does not include resting on her laurels. Or resting much at all for that matter.

During her 27-year career at Guelph, the internationally renowned parasitologist led the fight to establish a maternity-leave policy for all female employees on campus; campaigned for more balanced support of varsity, intramural sports and fitness programs for both male and female athletes; and was a leader in efforts to establish the Guelph chapter of the Canadian Association of Women in Science. In addition, she was a faculty adviser to the Athletics Advisory Council, a longtime member of Senate, a member of the UGFA executive and council, a member of the Joint Faculty Policies Committee and a Senate representative on B of G.

That commitment and dedication to learning and service didn't stop when she retired in 1995. Since then, she has helped launch the Guelph chapter of the Ontario Master Gardeners, completed an Ontario diploma in horticulture, signed on as a docent at the Arboretum and served on the steering committee for U of G's ACCESS program, raising money for student scholarships. Now she's on board as a co-chair of the campus community campaign.

"Giving to the University is a personal choice," she says, "and the target of gifts may change throughout life. My three children all benefited from tuition waivers, and scholarships were an enormous help to my daughter when she was a student here. So I thoroughly support the initiative being made in the campaign to raise funds for financial help to students. But some donors may prefer to give towards more tangible goals that are more visible to a wider community — such as the Arboretum and the U of G Library — and that would benefit tremendously from donations made by members of the University."

TODD SCHENK

He wants to ride from the coast of Vietnam to the English Channel on a motorcycle. Todd Schenk says it's the longest overland route in the world, "and it would be a pretty darn interesting trip."

Some things are just worth doing. Like majoring in geography with a minor in international development, like representing his peers as communications commissioner of the Central Student Association (CSA) and, now, advocating student participation in the University's community campaign.

Agreeing to co-chair this campaign was a considered decision for Schenk, who believes in principle that the full responsibility for funding post-secondary education should rest with Canadian society. But he is also a realist who says this ideal can't be achieved in the current political climate.

Schenk says he and his peers in the CSA see value in the campus campaign because it's a way for the U of G community to advocate that social responsibility. "I believe strongly in a community supporting the community. The campus campaign is a good way for this community to give back — to contribute to the good things we're doing here and reduce our dependence on outside funding."

Looking at recent CSA initiatives, Schenk notes that students have demonstrated a willingness to support worthwhile programs, such as raising \$6,500 for the United Way, agreeing to increase fees for student services, and helping to fund the new covered athletic field, career counselling efforts and programs that benefit special-interest groups on campus. Schenk has played a key role in CSA efforts to raise the public profile of student concerns and get students more involved in the political process.

He says his CSA experience is rewarding because the organization is making positive changes, but it's also fueling his interest in the political process and social structures. When he graduates, he plans to apply for a CIDA internship "somewhere in the world." After that, the motorcycle trip and probably graduate school.



Co-chairs of the campus community campaign, from top: Kenda Semple, Thom Herrmann, Mary Beverley-Burton and Todd Schenk.

PHOTOS BY DEAN PALMER/THE SCENARIO

"I think many of my colleagues, from staff to retirees, are here for the same reason. We believe in this university, and we're not afraid to stand up and tell other people about it."

LETTERS

NO CONTROVERSY AMONG EVOLUTIONARY BIOLOGISTS

I'm a faithful reader of *@Guelph*, but rarely do I feel the need to publicly challenge the views of its contributors. I have to applaud Profs. Bonnie Mallard and Art Hill (Dec. 12 issue) for waking me from my work-induced apathy with their unexpected and rather puzzling criticism of a research program on evolution in snails that was featured in the Nov. 28 issue of *@Guelph*.

Specifically, they argue that adaptive changes in a snail population that occur following the introduction of predators do not constitute evolution. More generally, they claim that any change caused by natural selection is not evolution because it is apparently reversible and is limited to the variation initially available in the genome.

As an evolutionary biologist, I was taken aback by these declarations, which are mistaken on all accounts. The fact is that evolution is defined as any change in the frequency of alleles within a population, and such changes in snails would certainly qualify, regardless of their magnitude.

Furthermore, I am aware of no controversy among evolutionary biologists on this matter, as Profs. Mallard and Hill would have us believe. From their comment about reversibility, I can only assume they are confusing the genetic process studied in snails with the ontogenetic process, referred to as phenotypic plasticity, which could lead to a reversal in form if replaced in the original environment.

Moreover, they seem unaware of the role of recombination and recurrent mutation that would pro-

vide new sources of variation, which allows selection to modify the organism well beyond its initial range of variation.

Their viewpoint reminds me of a common argument made for creationism, which isn't really an argument at all, just nitpicking on evolutionary biology. Many creationists grant that genetic change occurs on a small scale within species, but they claim this cannot produce macroevolution, which is, after all, the real evolution. For evidence, they claim no one has ever seen such transformations occur. This contradicts the available evidence from paleontology, developmental biology and evolutionary genetics.

In attempting to clarify what they perceive as a "common misunderstanding" about the relationship between natural selection and evolution, Profs. Mallard and Hill have instead created confusion when there is, in fact, none among evolutionary biologists.

Natural selection is indeed evolution, in that it results in changes in the genetic composition of a population, no matter how minor.

Prof. Brian Husband
Department of Botany

GENETIC ADAPTATION TO ENVIRONMENT ONE TYPE OF EVOLUTION

I am writing in response to the Dec. 12 letter from Profs. Bonnie Mallard and Art Hill.

Evolution is defined in Strickberger's (2000) textbook as "genetic changes in populations of organisms through time that lead to differences among them." Genetic adaptation of populations to changes in the environment fits this

definition and is therefore one type of evolution.

I have previously shown that shell thickness in the marine littorinid snails I study is a heritable quantitative trait. Directional selection can change the mean value of quantitative traits far beyond the initial range of variation in the base population. Reports of changes in the mean of 10 phenotypic standard deviations after 10 generations of directional selection are not uncommon. This is possible because of changes of the gene frequencies of existing alleles and the creation of new alleles by mutation at the multiple loci that affect a particular quantitative trait.

Predictive models of this type of microevolutionary change may allow me to determine whether Canadian animal populations can adapt to the type of environmental changes we expect in the next 100 years or so.

I agree with Profs. Mallard and Hill that my models are unlikely to shed light on macroevolutionary questions such as why a snail has a different body plan than a trout does. But major mutations, duplications and major changes in the regulation of the homeotic genes that result in the different body plans of different animal phyla have occurred very infrequently in the last 600 million years and therefore do not need to be included in my models.

That microevolution is sometimes reversible is intellectually satisfying. If we manage to halt global warming or remove zebra mussels from the Great Lakes, we might hope that any surviving Canadian populations will return to their initial state.

Prof. Elizabeth Boulding
Department of Zoology

Lactating Women Should Avoid Charred Meat, Study Shows

Chemicals formed during cooking found in human milk

BREAST-FEEDING MOTHERS who consume charred meats are probably passing dangerous environmental contaminants on to their children, according to a first-ever study by U of G researchers.

Heterocyclic amines — the mutagenic and carcinogenic products formed during frying, broiling and grilling of meats — were found in human milk during tests conducted by Prof. David Josephy and post-doc researcher Lillian DeBruin of the Department of Chemistry and Biochemistry and Perry Martos of Laboratory Services.

"There have been a number of studies that have found a link between consuming charred meats and an increased risk of breast cancer," Josephy says. One investigation concluded that women who ate red meat that was "very well done" had a 4.6-fold increased risk of breast cancer compared with those who usually ate meat that was "rare" or "medium."

"But this is the first time analysis of these compounds has been conducted on human milk," Josephy says. "We can say with some certainty that most of these environmental chemicals are also being absorbed by nursing infants, and as a rule, infants are more susceptible than adults."

The research is reported in the journal *Chemical Research in Toxicology*, published by the American Chemical Society, the world's largest scientific society. The pilot study included samples from 11 lactating mothers living near Guelph, 10 of

whom are meat eaters. The environmental chemicals that result from eating grilled meats were detected in nine of the 11 samples, with one of the two exceptions being the milk of the vegetarian donor.

"The presence of these environmental chemicals in human milk means this is possibly a human mammary carcinogen," says DeBruin.

Josephy adds that animal meat is the most likely source. "The chemicals are formed by heating creatine with amino acids, and creatine is found almost exclusively in muscle." This includes red meat, fish and chicken. "Reducing the intake of overly cooked meats might minimize exposure to these compounds," he says.

The chemicals have a relatively short lifespan in the body — between eight and 24 hours — so cutting back on consumption even just while breast-feeding might have a positive effect, he says.

Although the study was a pilot project intended to test the methodology of analysing milk samples for these contaminants, Josephy says the findings are provocative. "We will now embark on a more comprehensive study."

That work will include more detailed analysis of women's dietary habits and is being funded by the Canadian Breast Cancer Foundation.

BY LORI BONA HUNT

YOUR OTHER PENSION OPTION

An exclusive meeting open to professors and staff of the University of Guelph. Discussion on the strengths and weaknesses of transferring out the value of your pension.

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Slogan Promotes Value of Libraries

Trademark launched during National Library Week

IF YOU'VE BEEN to the U of G Library lately, you've probably noticed the red and yellow banner outside the entrance that reads @your library™. This slogan was conceived by the American Library Association as part of a campaign to draw attention to — and promote the value of — libraries in the 21st century, says science and technology librarian Jeannie Cockcroft.

The trademark was officially launched last April during a National Library Week event in Washington, D.C., featuring First Lady Laura Bush, who is a librarian herself. Cockcroft says libraries throughout the world are using the slogan to ignite interest in their new technically savvy services and programs. Here at home, the Ontario Library Association is responsible for helping libraries throughout the

province become part of this effort, she says.

The U of G Library is promoting the theme with other @your library initiatives, including a virtual reference service: questions @your desk and answers @your library™.

"Guelph is leading the way for many university libraries in North America in providing the campus with access to this new virtual reference technology," says Cockcroft. "This technology makes it possible to ask our library staff questions via the Internet in a real-time, live chat, Web-sharing environment."

She notes that the library's home page, launched last summer, also showcases the @your library logo in menu headings to make it easier for users to find their way to the resources and services offered through the site.

Energy Audit Looks at Ways to Do Things Better

Retrofit would enable University to cut costs and reduce carbon dioxide emissions

IT TAKES A LOT OF ENERGY to run a university. Here at U of G, with some 150 buildings on campus, energy costs run into the millions of dollars each year and are expected to keep getting higher. In an effort to reduce those costs and help the environment, U of G is conducting a campus energy audit that will shed light on ways to do things better.

The audit is being carried out by MCW Custom Energy Solutions Ltd. of Toronto, a Canadian-owned company that has done similar work for the University of Manitoba and other campuses, as well as school boards, the federal government and even Banff National Park. Since mid-September, MCW staff and consultants have been examining all aspects of the University's physical operation. At the end of January, the company will report on its findings, presenting the University with a feasibility study outlining potential ways of reducing energy use and predicting the savings to be made.

"We'll report on all the areas where energy can be saved, from light bulbs, windows and toilets to the steam-generation system, to alternative energy sources, to public education, to changing the way people operate," says MCW project co-manager Ian Sinclair.

A big part of the audit has focused on lighting because that's where about 40 per cent of a university's hydro is traditionally directed. MCW staff have been cataloguing every light fixture on campus, as well as taking light readings and logging how long lights are left on. This task is being carried out by a five-person crew consisting of an MCW electrical staff member based on campus, two Guelph graduate students and two U of G graduates.

At any one time, there are also three MCW mechanical engineers reviewing pumps, fans and other mechanical equipment on site or working from drawings provided by the University. A water conservation team looked at such things as water use in toilets, residence showers and laboratories. Another team examined building envelopes (doors, windows, roofs, etc.). In addition, a consultant was recently on campus looking at the possibility of introducing solar-generated water heating to the pools in the Athletics Centre. MCW is also carrying out a

gym is empty. We're looking at different ways of doing that. We want to solve problems, not just replace things."

In the feasibility study resulting from the review, MCW will provide the University with a wide-ranging menu of energy-saving options to consider, says Sinclair. "Our role is to think outside the box and look at all the possibilities. It's then up to the University to draw its own margins around what it wants."

U of G project manager Dan MacLachlan, assistant executive director of Physical Resources, says the

And the company stands behind its prediction of annual savings, he says. If the savings fall short in a particular year, MCW makes up the difference. "That's why this is such a good fit for universities, because they're under such budget restraints," he says.

Sinclair stresses, however, that saving money isn't the most important goal of a major retrofit. "The biggest thing is to make a dent in the University's carbon dioxide emissions," he says.

He believes this is a good opportunity to raise awareness among members of the University commu-

the costs of maintenance and make it easier to manage, says Sinclair. He notes that MCW will provide training during and after the construction period to everyone in Physical Resources involved in operating the new systems and equipment. "There's no point in spending money if people don't understand how something works or don't understand the intent. We want everyone to be comfortable with it."

Ensuring that people are comfortable is an important part of MCW's job, he adds. "We don't come in, drop out of the clouds and say: 'You're going to do this and this and this. We ask people on campus what they want to see done. Collaboration is essential."

During the construction phase, the goal will be to be as unobtrusive as possible to the campus community, says Sinclair. Much of the work will be carried out during quieter periods of the year, and the lighting work will be done at night. "We're used to doing projects in high schools and hotels," he says. "And we did the Supreme Court of Canada, which never closes."

Many of the improvements will be invisible to most people on campus, but such things as better lighting, air circulation, cooling and heating will be immediately apparent.

"We want to make it so that people are more comfortable in their environment," says Sinclair. "And generally, if you have a problem with a building's environment, energy is being wasted somewhere. So when you solve the problem, you not only save energy and money, but you also make it better for the people who work there."

BY BARBARA CHANCE

"Buildings use 30 to 40 per cent of Canada's energy. People should be aware of their impact on energy other than just driving to work every day."

full review of the University's utility billings, including identifying the actual effect of weather on consumption.

Sinclair notes that most of the buildings on campus are at least 30 to 40 years old, and in the years since they were built, products, technologies and ways of thinking about energy have changed dramatically.

"For example, the technology of a light bulb and the ballast that powers the bulb has improved significantly. Today, you can get better lighting quality with the same lighting levels and still use a third less energy. A lot of savings can be realized just by replacing the old with the new."

But MCW is not just looking at "changing A for B," he says. "It's more than a retrofit — it's a redesign. We're evaluating how things can be done better. In a gym, for example, you typically have lights that take 10 minutes to come on, so people leave them on all day even if the

study will be reviewed by the Physical Resources committee that originally commissioned it as well as various University administrators, who will determine which of MCW's options to pursue. Their recommendations will then go to Board of Governors for approval.

Whatever retrofitting measures U of G decides to take, MCW will manage the project from initial engineering design to turnkey project management through to the one to two years of on-site construction required. Following the construction, MCW will maintain an energy advocate on campus and review utility bills to ensure savings are being generated.

All costs of the retrofit will be covered by the energy savings themselves, says Sinclair. MCW offers to arrange initial financing of all construction work, then recoups the investment through the savings realized over a set period of years.

nity about global warming and about how energy is used in buildings. "Buildings use 30 to 40 per cent of Canada's energy," he says. "People should be aware of their impact on energy other than just driving to work every day."

MacLachlan adds that the retrofit will help address the deferred maintenance in U of G's aging buildings. "If we're replacing things with energy-efficient products, we'll also be renewing infrastructure and reducing our total amount of deferred maintenance. The University has been looking for creative ways to deal with deferred maintenance, and this will help."

In addition, he says, the retrofit will provide an opportunity to standardize products used at U of G, "so that we're not using hundreds of different types of light bulbs, for example. This will save money, time and energy in the long run."

Overall, the retrofit will reduce

Resource Efficient Agricultural Production (REAP-Canada) invites you for a day on
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Saturday, Jan. 26, 2002

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- 3:30-5 p.m. **Restoring the landscape using analog forestry and organic certification**

Learn about CIDA-funded development initiatives in the Philippines and the agro-ecological village development model.

Two of REAP's Philippine partners will give presentations during the afternoon session: Georje Pitong, director of MASIPAG-Visayas (Farmer-Scientist Partnership for Development), and Leopoldo Guilaran, a farmer and the active chairman of MASIPAG.

Cost: \$50 general, \$10 for students

Come and learn how you can be involved!

The 21st Annual Guelph Organic Agriculture Conference (Jan. 25-27) offers a variety of workshops on organic farming and an organic trade show. See <http://www.guelph2002.org/organicfarms.ca> or call the conference response line: 519-824-4120, Ext. 2558.

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New Varsity Rowing Team Is Making Waves

Novice rowers make impressive showing at provincial championships

PROF. WALTER KEHM, Landscape Architecture, wasn't sure what to expect. There at the start line was a crew of eight U of G students, poised over the oars in their 20-year-old racing shell, waiting for the signal for the novice women's eight final in St. Catharines in November.

Having dominated their category for the entire season, the crew had easily won the first heat to advance to the final round. Still, this was only the first season of varsity rowing for them, as it was for the other Gryphon women's and men's crews competing in the varsity OUA rowing championships.

How well would Guelph stand up against seasoned teams from the likes of Toronto, Western and Queen's?

More than respectfully, as it turned out. That novice crew powered its way through a rain- and wind-swept course to a gold medal. Later, the heavyweight women's four from U of G captured a bronze medal in their event.

"It's been quite amazing," says Kehm, founding president of the

three-year-old Guelph Rowing Club and one of several coaches of the new varsity team working with head coach Brian Sulley.

"We've suddenly found ourselves in a situation in our first varsity season of being very successful. The crew of new women varsity rowers has just got people talking."

People aren't just talking. They're rowing, if the growing popularity of a young club in Guelph is any indication. Three years after Kehm helped launch a learn-to-row program, the Guelph Rowing Club now includes about 120 dues-paying members in high school, varsity and master's competitive and recreational rowing, plus about 150 to 200 people enrolled in learn-to-row instruction.

The varsity team now includes about 40 students. Another 30 to 40 students, staff and faculty belong to the University Rowing Club, which is part of the Guelph club. So is the local high school rowing program begun in 2000, which drew about 60 public students this year to compete in about 10 regattas.

Kehm says that local growth reflects "exploding" interest across

Canada, particularly in the wake of recent high-profile successes of championship rowers such as Silken Laumann, Marnie McBean and Katharine Hedde. "Canada's one of the rowing powers of the world," he says.

Both as a sport and a recreational pastime, rowing has become especially popular among women. About seven out of 10 rowers today are female, a turnaround for a sport once considered a male, Ivy League bastion.

Put together that trend with an increasing proportion of female students attending U of G, and Kehm says the University's competitive and recreational rowing program might even become a tool for student recruitment efforts. "I could see this being a big draw."

Margaret Timmins, administrative assistant in the Department of Food Science and a member of the Guelph Rowing Club, says Olympic rowers generally come out of the university system. "And the more university clubs we have, the better I think it's going to make rowing in Canada. I think it's wonderful that

the students at Guelph now have that opportunity to be involved in rowing."

Timmins's own involvement began two years ago with the learn-to-row program. In September, she competed among more than 3,000 athletes at the world master's meet (for rowers age 27 and older) in Montreal with her doubles partner, Pat Passmore, of the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA).

"We're a unique University of Guelph-OMAFRA partnership, a different little twist," says Timmins. Having paired up after rowing together last year on a women's four team, they're now aiming for the world championships in France in 2003.

The Guelph Rowing Club sprang out of planning for the 1998 Summer University Games held in the city, for which Kehm co-ordinated the rowing, canoeing and kayaking events on Guelph Lake.

Noting the club's scope from high school students to seniors, Pat Weir, a veterinary technician in OVC, says: "When they say it's a lifetime sport, it truly is."

Adds Timmins: "What's wonderful about the sport is, it's something you can start later on in life and still have the opportunity to reach a level of proficiency where you can be competitive. That's a real plus for people."

That sentiment is echoed by Passmore, who says she plans to

continue rowing "as far as I can. They can bury me in the boat."

The "all for one, one for all" spirit also makes rowing a natural team-building exercise, says Kehm.

Passmore agrees: "There are absolutely no egos in a boat. Everyone has to work together."

Kehm has been rowing since 1955, when the New York City native saw his first regatta on a video clip. He chose to attend Syracuse University not just because it was in his state but also because it offered a rowing program.

Now a Guelph Rowing Club coach and master rower, he competed last summer at the Henley Regatta in St. Catharines, where his men's four crew won a silver medal. He calls rowing "the graceful application of power, not the grunt contact thing of football or rugby. If you don't row gracefully, the boat doesn't move."

Weir says she has always liked the look of rowing. And besides its esthetic and physical benefits, she had another goal in mind when she enrolled in the inaugural learn-to-row program: to pass the mandatory swim test.

"I'm actually afraid of water," she says. "One of the reasons I wanted to row was to work on that." Now a learn-to-row instructor herself, she says her swimming has improved. "I don't even think about it now when I get into the boat."

BY ANDREW VOWLES

Woods Hole Founder to Speak

GEORGE WOODWELL, founder, president and director of the Woods Hole Research Center in Woods Hole, Mass., will visit campus Jan. 22 to speak in the College Faculty of Environmental Design and Rural Development Colloquium Series.

He will speak on "Security and Insecurity in a Terrified World" at 7 p.m. in Room 1714 of the OVC Learning Centre. His visit is being

chaired by Prof. David Rapport and former president of Sweden, Ola Ullsten, an honorary degree recipient of U of G.

A graduate of Dartmouth College and Duke University, Woodwell joined the Brookhaven National Laboratory in 1961 and remained there until 1975, when he founded and became director of the ecosystems centre at the Marine Biology Laboratory in Woods Hole. He

founded the Woods Hole Research Center, an institute for global environmental research, in 1985.

The author of more than 300 papers on ecology, Woodwell is the recipient of a number of prestigious international prizes, including the 1996 Heinz Environmental Prize, the 2000 John H. Chafee Excellence in Environmental Affairs Award and the 2001 Volvo Environment Prize.



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Organic Agriculture Focus of Talks

THE 21st ANNUAL Organic Agriculture Conference runs Jan. 25 to 27 in the University Centre. This year's theme is "Organic Agriculture and the Farm Economy." The conference will include workshops, seminars, a trade show and a keynote talk by Gunnar Rundgren, president of the International Federation of Organic Agriculture Movements.

The conference will also feature a public forum and panel discussion on "Can Organics Save the Farm Economy?" Jan. 25 at 7 p.m. in the Whippetree. Cost of the forum is \$10. For more information, call Ext. 2558.

During the conference, Resource Efficient Agricultural Production

(REAP-Canada) will host a workshop on international sustainable agriculture Jan. 26 in the University Centre (room TBA). Discussion will focus on youth opportunities in international organic agriculture at 11 a.m., agro-ecological villages as a development strategy at 1:30 p.m. and restoring the landscape using analog forestry and organic certification at 3:30 p.m.

Two of REAP's Philippine partners will give presentations: Georje Pitong, director of MASIPAG-Visayas, which is a farmer/scientist partnership for development; and Leopoldo Guilaran, a farmer and acting chair of MASIPAG.

Cost of the workshop is \$50 general and \$10 for students at the door.

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
Jan. 30	Jan. 22	March 27	March 19
Feb. 13	Feb. 5	April 10	April 2
Feb. 27	Feb. 19	April 24	April 16
March 13	March 5	May 8	April 30

CLASSIFIEDS

WANTED

Pop-up tent trailer, 10- to 12-foot box, king-sized bed, great shape, Ext. 4596 or avuk@uoguelph.ca.

Used opaque projector in good condition, Kimberly, Ext. 3144 or kmckayfl@uoguelph.ca.

One-bedroom apartment, bachelor or shared accommodations for Feb. 1 for mature student, Andrea, 905-522-3167 or kohnab@mcmaster.ca.

Experienced female driver to drive student to Guelph from school in south Kitchener Monday to Friday at 3:20 p.m. and/or from Guelph to Kitchener at 7:40 a.m., Helen, 824-2634.

Furnished bachelor apartment in quiet neighbourhood for mature, quiet student, with laundry, parking and separate entrance, preferably within 30-minute walk from campus, non-smoker, no pets, reasonable rent, 837-0022 or sunflowerjs@hotm.com.

FOR SALE

Laptop — Acer Extensa 501DX, Pentium 266 MHz, 32-MB RAM, 3.2 GB, 20X CD-ROM, floppy, 56K modem, Windows 98, Curtis, 837-1594 or mohanc@uoguelph.ca.

Passier Hannover all-purpose saddle, 17½ inches, excellent condition, Maria, Ext. 4118 or mmackay@uoguelph.ca.

Laboratory analytical equipment: 1993 Tecator Auto Sampler system, 1995 Atomic Force microscope, 1990 VG Autospec, 767-6314 or kpeer@lsd.uoguelph.ca.

Downhill skis, 160- and 180-cm, size SX 7.8.9, ski boots, poles; weight bar plus 150 lbs. of weights, Ext. 2622 or gchapman@uoguelph.ca.

Couch, sofa bed, sofa set, 30-gallon aquarium with accessories, exercise machine, office chair, baby car seat/carrier, baby swing, playpen, will deliver, 824-5440.

Golf bag, "Taylormade," dark brown/black, brand new, never used, 827-0941 or kkosari@uoguelph.ca.

FOR RENT

Furnished bachelor apartment in Normandie, France, sleeps two or three, parking, \$700 for three weeks from April to October and \$600 a month from November to March, 763-8806.

Young professional seeking roommate to share large two-bedroom

apartment in north end of town, must like dogs, 822-6228 after 5 p.m.

Furnished three-bedroom home near downtown, appliances, parking, available from March 1 to Aug. 31, 2002, \$1,200 a month inclusive, 763-4102 or gary.pundsack@engel-cc.com.

Three-bedroom semi-detached home in downtown area, 2½ baths, parking, laundry, no dogs, available immediately, \$1,150 a month inclusive, 822-2539.

Furnished executive two-bedroom condo in historical building in Guelph, two baths, ensuite laundry, parking, available Feb. 1, \$1,500 a month inclusive, Carol, 823-1857, 731-1857 or intelrent@hotmail.com.

AVAILABLE

Guitar lessons for students six and older, sight reading and preparation for RCM exams, located near campus, reasonable rates, Wilma or Bob, 821-9345.

Classifieds is a free service available to staff, faculty, students, alumni and retirees of the University. Submit items to Linda Graham on Level 4 of the University Centre, fax to 824-7962 or send e-mail to l.graham@exec.uoguelph.ca.

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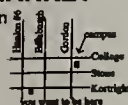
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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Jan. 20 with "Winter Weeds" and Jan. 27 with "Snowshoe Trek." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 is suggested.

Naturalist Chris Earley presents a workshop on owls Jan. 30 from 9 a.m. to 5 p.m., to be followed by an "owl prow" from 6:30 to 9:30 p.m. Cost is \$65. Registration and payment are required by Jan. 23.

Horticulturist Henry Kock leads a workshop on "Gardening From a Natural Perspective" Feb. 13 or 14 from 1 to 4 p.m. Cost is \$20. Registration and payment are due Feb. 1.

The Arboretum's Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays from Feb. 2 to April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

Madéraz Latin Music presents a Latin fiesta for children Feb. 5 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5 and are available at the Arboretum or at Simply Wonderful.

ATHLETICS

U of G hosts the Guelph Open wrestling meet Jan. 19 beginning at 9 a.m.

The women's hockey Gryphons are at home to Windsor Jan. 20 at 5:30 p.m., Brock Jan. 30 at 7:30 p.m. and York Feb. 2 at 2 p.m. The men's team hosts York Jan. 20 at 2 p.m. and Western Jan. 21 at 7:30 p.m.

The women's indoor hockey team holds an exhibition game Jan. 20 at 9 a.m. and hosts a tournament Feb. 2 and 3.

The men's volleyball team is at home to Waterloo Jan. 23 at 8 p.m. and Western Jan. 26 at 3 p.m. The women's team hosts Waterloo Jan. 23 and Brock Jan. 30, with both games at 6 p.m.

Western comes to campus Jan. 30 to take on the women's basketball team at 6 p.m. and the men's at 8 p.m.

COLLOQUIUM

The College Faculty of Environmental Design and Rural Development presents George Woodwell, founder, president and director of the Woods Hole Research Center, discussing "Security and Insecurity in a Terrified World" Jan. 22 at 7 p.m. in OVC 1714.

CONCERTS

The Thursday noon-hour concert series opens Jan. 24 with pianist Timothy Minthorn. The Jan. 31 concert will feature Michael Wood on vibes and Kevin Muir on bass. The concerts are held in MacKinnon 107.

FORUM

The School of Languages and Literatures Forum presents Prof. Ruediger Mueller discussing "Arthur Schnitzler's *Der Reigen*: Sex, Love and Prostitution" Jan. 31 at 4 p.m. in the University Club on UC Level 5.

LECTURES

The winter session of Third Age Learning-Guelph's lecture series for retired people begins Jan. 16 with Prof. K.C. Tan, Geography, discussing "China—Its Place in the World" at 10 a.m. and Prof. Farokh Afshar, Rural Planning and Development, on "In the Real World—Education for Global Citizens: The Example of Rural Planning and Development" at 1:30 p.m. On Jan. 30, Steve Endicott presents "Korean War: China's First Encounter With the U.S.A." at 10 a.m., and Prof. David Douglas, Rural Planning and Development, considers "Sustaining the Rural Community Economy: Opportunities and Challenges in Development Process and Practice in a Changing World" at 1:30 p.m. On Jan. 31, Prof. Ron Stoltz, Landscape Architecture, examines "Reclaiming Community Design" at 10 a.m. Lectures are at the Arboretum Centre.

NOTICES

The 2002 University/College Job Fair sponsored by Partnerships for Employment runs Feb. 6 from 10 a.m. to 3:30 p.m. at RJM Park in Kitchener-Waterloo. Students in all disciplines and semesters are welcome to network with more than 125 North American employers from diverse sectors. An employer guidebook will be available from Career Services Jan. 30. Admission to the fair is free with student/alumni ID. For more information, visit the Web site www.partners4employment.ca.

The Summer Language Bursary Program offers students an opportunity to learn their second official language during a five-week session this summer. Application deadline is Feb. 15. For information, call 1-877-866-4242 or visit the Web site www.cmec.ca/olp.

The Guelph chapter of Sigma Xi, the Scientific Research Society, is calling for nominations for its annual D.G. Ingram and H.S. Armstrong awards, which recognize excellence in PhD and M.Sc. theses, and its Support of Research Award, honouring a person who has made a significant contribution to research in a supportive role. Nominations must be made by chairs or directors by Jan. 31 to Prof. David Noakes, Zoology.

The YMCA-YWCA of Guelph is calling for nominations for its 2002 Women of Distinction Awards. Nomination deadline is Jan. 31. The awards will be presented May 16 at the River Run Centre. For nomination forms, call 824-5150 or visit the Web site www.guelph.com.

The U of G/OMAFRA research program invites submissions for new research proposals from faculty and college researchers. Proposals are especially encouraged from those who have not participated in the U of G/OMAFRA agreement in the past. Proposals must be submitted in a specific format by Jan. 31. For the format and information, call 826-3809 or visit the Web site www.uoguelph.ca/Research (click on "Bulletin Board").

U of G's Multi-Faith Resource Team will host a discussion of "Spiritual Passion: Religion as Matrix of War and Peace" Jan. 31 from 7:30 to 9:30 p.m. in UC 103. Everyone is welcome. For more information, send e-mail to edenhaan@uoguelph.ca.

The Stress Management and High Performance Clinic is again offering classes in "Relaxation and Stress Management Skills" beginning Jan. 29. Classes run Tuesdays and Thursdays for six weeks. Cost is \$40 for U of G students, \$60 for USWA Staff Union members and \$120 for community members. The clinic is also offering a five-session "Better Sleep Program" Fridays at noon in UC 390, beginning Jan. 18. Cost is \$20 for U of G students, \$50 for others. Registration forms at available at the UC Info Desk. For more information, leave a message at Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

Gryphons Toastmasters meets every Wednesday from 7:15 to 8:15 a.m. in the Johnston Hall boardroom. The meetings give participants an opportunity to improve their speaking skills and boost their confidence about speaking to an audience. All students, faculty and staff are invited to attend. Enter Johnston Hall at the southernmost front door and follow the signs. For more information, send e-mail to cdewey@uoguelph.ca.

The Association of Universities and Colleges of Canada, which administers the Canada-Latin America-Caribbean research exchange grants for the International Development Research Centre, is calling for applications for the program by Feb. 8. Guidelines are available on the Web at www.aucc.ca/en/international/guidelines/lacrege02.pdf. For more information, send e-mail to jgal-lagh@aucc.ca.

Applications are now being accepted for international field studies grants to provide support for up to five Guelph students to complement their studies with a global and cross-cultural experience. Senior undergraduates and graduate students are eligible for the awards. Application forms are available from the InfoCentre in the Centre for International Programs in Day Hall. Deadline is Feb. 8.

Brock University is calling for papers for the second biennial conference on "Image and Imagery," to be held

Oct. 16 to 18. Focusing on "Frames, Borders, Limits," the conference will be a multidisciplinary exploration of the intersection or interdependence of the visual, textual and oral/aural modes of expression in the arts. Abstracts should be limited to 200 words and submitted by Feb. 28 to image@www.brocku.ca.

During the winter semester, the McLaughlin Library and the OVC Learning Commons are open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends and holidays. Hours will be extended during the exam period in April.

SEMINARS

The Department of Microbiology graduate student seminar series presents Cory Wenzel explaining "Strategies for the Identification of Virulence-Associated Genes" Jan. 18. On Jan. 25, Emilisa Fridrich considers "Type III Secretion: Check It Out." On Feb. 1, Jeff Hodgson discusses "Targeting Chitin With Enhanced Chitinase Expressing Baculoviruses to Manage Spruce Budworm (*Choristoneura fumiferana*) Outbreaks." The seminars begin at noon in Food Science 128.

The Department of Zoology's winter seminar series kicks off Jan. 25 with Prof. Gordon Hines, Mathematics and Statistics, discussing "Making Good Use of Bio-Telemetric Data in Home Range Determinations" at 3:30 p.m. in Axelrod 265A.

SYMPOSIA

The Department of Human Biology and Nutritional Sciences hosts the symposium "Living Smart for a Healthy Heart" Jan. 26 from 10 a.m. to 6 p.m. at OVC. For more details, call Melissa Dejesus, Ext. 73230.

"Caring for the Environment" is the focus of the eighth annual Environmental Symposium Feb. 2 from 9 a.m. to 4:30 p.m. Registration for the event will be in Thornbrough 1200. Tickets are \$6 at the door. Everyone is welcome.

THESIS DEFENCES

The final examination of Lorne Owen, a PhD candidate in the Department of Rural Extension Studies, is Jan. 16 at 8:30 a.m. in Animal Science and Nutrition 141. The thesis is "A Theoretical Framework for Examining Multi-Stakeholder (Group) Conflicts Over Agriculture Resource Use and Farming Practices." The adviser is Prof. Mark Waldron.

The final examination of M.Sc. candidate Samantha Luk, Psychology, is Jan. 16 at 2 p.m. in MacKinnon 132. The thesis is "Automatic Processing and Phonological Activation in Reading Chinese: Evidence From the Stroop Effect." The adviser is Prof. Harvey Marmurek.

TEACHING SUPPORT

Teaching Support Services (TSS) is launching the Universal Instructional Design project, which will provide between \$2,000 and \$20,000 in financial and design support to 10 to 15 selected course redesign and course enhancement projects. On Jan. 24 at 2 p.m., TSS hosts an information session on the project. Register online at www.tss.uoguelph.ca. For more information, visit the Web site www.tss.uoguelph.ca/uid/uid.html or contact Aldo Caputo at Ext. 2936 or acaputo@uoguelph.

WORKSHOPS

Computing and Communications Services is offering workshops for graduate students this winter. Upcoming sessions include "Getting Around Excel" and "Intro to SPSS" Jan. 17, "Intermediate Stats Analysis in SPSS 10—Means Comparisons" Jan. 18, "PowerPoint" Jan. 21, "PROC REG/PROC CORR" Jan. 22, "PROC GLM/Mixed" Jan. 23 and "SAS Graph" Jan. 24. Detailed descriptions are available on the Web at www.uoguelph.ca/ccs. Registration is required.

COMMUNITY EVENTS

The Guelph and Wellington County Master Gardeners present "Growing Concerns... A 'How to' Series" Jan. 30 and Feb. 6 from 7:30 to 9 p.m. at the Guelph Turfgrass Institute on Victoria Road. Topics are "Birds, Butterflies, Honeybees and Hummers" Jan. 30 and "The Art and Science of Lawn Care" Feb. 6. Admission is \$7 for one night or \$10 for both. Register at 763-0650.

The Waterloo-Wellington Wildflower Society meets Jan. 16 at 7:30 p.m. at the Arboretum Centre. Prof. Glen Lumis, Plant Agriculture, will discuss "Landscaping With Native Trees." Everyone is welcome.

Guelph Little Theatre presents the comedy *Five Women Wearing the Same Dress* by Alan Ball for 10 performances Jan. 24 to Feb. 9. Recommended for mature audiences. For ticket information, call 821-0270.

The Canadian Federation of University Women will hold an open meeting Jan. 22 at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd. W. Guest speaker Kim Anderson, a Cree/Métis writer and educator, will discuss "Native Women: Image and Identity."

The second performance in the Elora Festival Singers' Soup Concert Series features choral works by Bach Jan. 20 at St. John's Church in Elora. The event begins with lunch at 1:30 p.m. To order tickets, call 846-9694.

The annual meeting of the Wellington County branch of the Ontario Genealogical Society is Jan. 22 at 7 p.m. at the Unitarian Church, 122 Harris St.

Art From the Heart

Auction celebrates the creativity of children

IT'S ART DONE WITH HEART. And with fingers and toes. And maybe a nose or two thrown in for good measure.

The art in question is the result of weeks of creative effort by the children who attend the U of G Child-Care and Learning Centre. From babies to kindergarteners, they've been putting their all into painting works of art that will be framed and auctioned off next month as a fundraiser for the centre.

The auction will be held Feb. 17 at 3 and 5 p.m. at the Bookshelf in downtown Guelph. The 3 p.m. event will be a silent auction, complete with music and milk and cookies. Admission is \$5. The 7 p.m. event will feature both silent and live auctions, as well as appetizers and music. Cost is \$10.

The auction is the brainchild of

Ann Wilke, a teacher at the centre who got the idea when a colleague framed a piece of children's artwork for her last year as a wedding present. She calls the event "a wonderful celebration of the creativity of children. By encouraging their participation in art projects, and through the public display of their work, we send a clear message to them that their efforts are valued and respected."

In addition, the auction provides an opportunity for people to show their support for high-quality education for both today's children and future generations, she says. "All proceeds from the event will be used to buy educational toys and equipment for the Child-Care and Learning Centre."

For more information or to order tickets, call Ext. 2682.



Up-and-coming Canadian artist Lidia Rajcan, shown here putting the finishing touches on her latest painting, is one of the 138 young artists whose works will be auctioned off next month in support of the U of G Child-Care and Learning Centre.
PHOTO BY MARTIN SCHWALBE

Drama Professor Goes Behind the Scenes

New book aims to develop a thoroughly researched system for understanding contemporary English-language theatre

NEW DRAMA THEORY suggests that two-thirds of the meaning an audience takes from a theatrical performance is unspoken, behind the scenes or even in the lobby.

That's the science behind analysing a theatrical performance, says Prof. Ric Knowles, Literatures and Performance Studies in English, in his new book, *Reading the Material Theatre*. The book aims to develop a thoroughly researched system for understanding contemporary English-language theatre.

"Theatre doesn't exist in a vacuum," says Knowles. "It exists in a cultural and social world, and those elements need to be taken into account. We can't just talk about play scripts and actors anymore."

Whether the play is at Canada's prestigious Stratford Festival or at a smaller grassroots venue such as Toronto's Tarragon Theatre, the theory remains the same, he says. Scripts and actors are only part of a theatrical performance, accounting for just a third of what reviewers and academics should consider when analysing a show. The other components are more common than people might expect — the conditions under which the performance is produced and the conditions under which an audience receives it.

In the 1998 British stage production of Eugene O'Neill's *The Iceman*

Cometh, for example, Hollywood actor Kevin Spacey played a leading role among a troupe of British actors. The play received positive feedback from reviewers throughout Britain, but when the same production travelled to the United States, reviews of Spacey's performance were far less favourable. Essentially, the production conditions — the show's direc-

tion, design, script, casting and actor training — remained the same, but the production sites were far different. The U.S. audience put the show in an entirely new cultural and social context.

"Too often, people treat performances as complete in themselves, as if they think shows are the same wherever they happen, with nothing be-

fore, after or around them, but that's simply not true," says Knowles. "People writing about theatre rarely write about money and working conditions, but they are usually the two factors that theatre people talk about most and that directly affect what they do."

In his research, Knowles traced the run of one show, *House/Lights* by

New York's Wooster Group, which premiered in New York, then travelled to festivals in Montreal and Paris and toured through Glasgow. He studied the various obstacles affecting production conditions by studying each venue's performance space, floor plans and technical capabilities.

He also examined ticket prices, audience demographics and theatre company mandates. He attended performances in each of the venues, talking with other audience members, reading reviews and conducting interviews. These are the practical circumstances Knowles calls conditions of reception, and it is through these seemingly small components that he has built a method of reading, interpreting and understanding theatre.

"When we start to realize that theatre is affected by everything that is around it, it has a huge impact on the way practitioners think about what they do," he says.

His book, intended for publication by Cambridge University Press in 2002, is designed to analyse and teach theatre analysis to an academic audience, theatre practitioners and the general public. His research is funded by the Social Sciences and Humanities Research Council.

BY LISA CAINES
SPARK PROGRAM



What you see on stage is only a minor player in the overall performance in theatre productions, says Prof. Ric Knowles.
PHOTO BY MARTIN SCHWALBE

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If you are interested in caring for ICU neonatal foals and can be vaccinated against rabies, then the VET TEACHING HOSPITAL at the OVC wants YOU! Foal season is fast approaching us and we here at the VTH would like to start orientations for foal watch personnel. This consists of continuous 24 hour care of the ICU foals which are admitted to the Hospital. Interested people must be available for shifts through the night and day. The most demanding time is during April/May, therefore we would accept applications from people who have an interest in Equine care and are 18 years or older.

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Uncertainty, Challenge Face Universities in MTCU Budget Planning for 2002/2003

Consultation under way on campus to build budget scenario for U of G

ONTARIO UNIVERSITIES face another year of fiscal uncertainty and challenge. That's the main message emerging from the context-setting presentations that have been made to date as part of the consultation on building U of G's Ministry of Training, Colleges and Universities (MTCU) operating budget for 2002/2003.

Presentations have been made by president Mordechai Rozanski and assistant vice-president (finance) John Miles to the Vice-President (Academic)'s Council and Senate Committee on University Planning, and by Miles and Nancy Sullivan, vice-president (finance and administration) to the Enrolment Coordinating Committee and the Stu-

dent Budget Advisory Group. Further sessions are planned for employee groups, the Consultative Forum and Senate. What these groups are hearing is that the budget context for Ontario universities for 2002/2003 is more provisional than in previous years.

"In the May 2001 provincial budget announcement, the government did eliminate some uncertainty by spelling out a three-year funding commitment in support of projected enrolment growth," says Miles, "but the situation has since become more complex. Although the province has committed to full funding for increased numbers of students, enrolment is already outpacing the growth predictions used to calculate the multi-year funding

commitment, creating a funding shortfall."

Ontario universities are pressing the government for solutions to these uncertainties. The goal is to protect the principle of providing full funding for growth and to ensure that all qualified and motivated students in the province wishing access to a university in the years ahead will have a place.

"In addition," says Rozanski, "universities are making clear that our great concern is maintaining quality and accessibility. We need more funding to hire faculty and staff, for equipment, for the library and for facilities."

Although there's uncertainty on the revenue side, there's much less

Continued on page 10

Protesters Leave Voluntarily

STUDENTS who occupied the executive suite on Level 4 of the University Centre early on Jan. 28 by barricading all entrances and exits left voluntarily shortly after 7 p.m.

The University did not negotiate issues of tuition or related matters with the students because it does not

do so under duress or an occupation.

The students were told by the City of Guelph Fire Department that barricading the doors was in violation of the Ontario Fire Code and that if the barricades were not removed, the students would be open to prosecution.

The University told the students

if they removed the barricades, they would be allowed to continue with their sit-in.

Because the students left voluntarily, the University said it will not press charges, but the students were warned that similar action in the future would result in charges being laid.

TOWARD 2010

Consultants Address Leading Issues in Campus Master Plan

IN RESPONSE to a campus master plan issue sheet distributed in October, more than 130 members of the U of G community have identified a range of campus planning issues. Meetings were also held with 26 stakeholder groups, which included students, faculty, staff and alumni, to examine specific issues such as accessibility, safety and security, landscaping and student housing.

Following a review with the Campus Master Plan Steering Committee and a presentation to Board of Governors in early December, the University's consultants are now addressing the leading issues identified through the consultative process in the development of planning alternatives for

future comment by the U of G community.

The leading issues identified to date are:

- **Parking:** Opinions range from "we need more" to "we have too much," from "parking should be closer to offices or classrooms" to "parking should be on the outskirts of campus," and "we should decrease emphasis on providing parking and encourage other modes of travel to the campus."
- **Quality and/or unity of materials:** This concern included materials for structural elements in both buildings and landscape.
- **Walkways:** Concern was expressed about the condition of the brick and other existing

walkways, as well as the need for new walkways, particularly from parking lots.

- **Gordon Street:** This street was the focus of concerns related to safety, connection to the campus core and aesthetics.

- **Green space:** A majority of respondents wanted green space to be preserved and appreciated the present character of the campus.

- **Safety:** A range of safety issues, particularly lighting, were raised related to pedestrian movement and personal security.

- **Entrances:** The need for a stronger sense of entry to the campus was raised by a number of

Continued on page 10

@GUELPH

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UNIVERSITY
GUELPH

SERVICE TO REMEMBER FORMER CHANCELLOR

A memorial service to honour the life and contributions of former U of G chancellor Pauline McGibbon, who died Dec. 14 at age 91, will be held Jan. 31 at 4 p.m. at the Arboretum Centre. A former lieutenant-governor of Ontario, she served the University from 1977 to 1983.

DAY OF ACTION FEB. 6

The Canadian Federation of Students has launched a campaign to demonstrate support for tuition fee freezes and reductions. As part of the campaign, thousands of students will be participating in a national day of action Feb. 6. Prior to the national event, U of G students will stage a rally for university funding Feb. 5 from noon to 1:30 p.m. in the University Centre courtyard.

MAN ARRESTED FOR THEFTS

A 26-year-old man has been charged by city police with a series of thefts on campus dating back to October. Steven Elliott faces a long list of charges, including theft, possession of stolen credit cards, possession of stolen property, fraud, forgery, impersonation and possession of break-in tools. The charges relate to thefts at the Athletics Centre and the U of G Library. Despite this arrest, Keith McIntyre, director of Security Services, says members of the University should continue to be vigilant about protecting their belongings. Thefts continue to occur, including an incident involving two wallets stolen in the library Jan. 25.

NORTH AMERICAN-WIDE SURVEY EXPLORES ACADEMIC INTEGRITY

During Academic Integrity Survey Week Jan. 21 to 25, several initiatives took place on campus to promote awareness and encourage participation in a North American-wide survey conducted through the Center for Academic Integrity at Duke University. The online survey will help U of G understand campus perspectives on academic misconduct and how members of the University can work together to support a culture of integrity at Guelph. If you did not receive an e-mail invitation to participate or if you would like more information about the survey, contact Prof. Julia Christensen Hughes at jchriste@uoguelph.ca.

HUMAN RESOURCES OFFERS RANGE OF DEVELOPMENT OPPORTUNITIES IN WINTER

Human Resources is again offering a variety of development opportunities for faculty and staff this winter. Admission to courses is on a first-come, first-served basis through telephone registration only, beginning Jan. 31 at 8:30 a.m. For more information, check out the booklet distributed across campus this month or visit the Web site www.uoguelph.ca/HR/training/index.

Electronic Gateway Begins New Era for IS/@access

Harnessing the power of the Internet will help widen client base



Doug Badger of Computing and Communications Services, left, Julia Grady of Barking Dog Studios and Bill Culp of Independent Study/@access celebrate the launch of a new Web site for electronic learning.

PHOTO BY MARTIN SCHWALBE

STOP SURFING, start learning. That's the message U of G's Independent Study (IS)/@access division is sending to landscape horticulturalists and avid gardeners with the launch of its new Web site at landscapehorticulture.net.

The site, which opened for business Jan. 21, is an electronic gateway to the courses that lead to an Ontario diploma in horticulture (ODH). Distance learners can now register and select courses online, pay by credit card, download interactive PDF files and start learning immediately.

The move to electronic course delivery begins a new era for IS/@access, which has relied on Canada Post to shuttle course materials and assignments back and forth over the ODH program's 40-year lifespan. The open-access, continuous entry program will continue to offer service through the mail, but IS/@access director Bill Culp predicts that the Web-based courses, which eliminate the standard four- to six-week mailing delays, will quickly become the preferred choice.

Harnessing the power of the Internet will also allow IS/@access to more easily reach a much larger client base.

"The market for the material is continental and possibly global," says Culp. "The only way to get into this market substantially is to use the Internet. It's grow or die."

The IS/@access courses are targeted at adult part-time learners. They range from enthusiastic home gardeners to landscaping industry employees who want to upgrade their skills. Culp hopes to triple the current roster of 3,800 active learners by more aggressively pursuing the U.S. market, which currently accounts for about 10 per cent of the client base.

The push to crack the U.S. market started in earnest a few years ago,

giving Culp a sense of just how big the opportunities are south of the border. In addition to launching the new Web site, he has teamed up with Rutgers, the State University of New Jersey, to promote the e-courses under the Rutgers brand name.

Currently, seven of the most popular horticulture and landscaping courses are available online. They are "Elements of Garden Design"; "Starting a Green Business"; "The Horticulturalist I, II and III"; "Tree Ecology in the Human Environment"; and "Woody Plants: Their Identification and Use." IS/@access plans to add eight more courses by fall 2002.

Another advantage of electronic course delivery is the dynamic experience it provides, says Culp. There are interactive quizzes, a learners' exchange forum and links to related Web sites. Assignments can be submitted online, and users can sign up for an electronic newsletter that's designed to build a learning community.

Putting the whole package together was a "staggering" amount of work that took 18 months and cost \$150,000, he says. To get the job done, he drew on the expertise of Computing and Communications Systems (CCS), Financial Services and Audit Services, as well as an outside Internet development contractor, Guelph-based Barking Dog Studios.

Barking Dog handled the project development, including Web design, programming and production of three of the site's e-courses.

Using the Internet for course delivery is not new for U of G—the Office of Open Learning has been delivering its degree-credit distance courses that way for some time. What is new is the immediate access to course materials that IS/@access now offers.

The landscapehorticulture.net

Web site is precedent-setting for the University of Guelph in how it handles "e-commerce" financial transactions, says Doug Badger, CCS's manager of University systems.

"This is an elegant, secure system," he says. "To my knowledge, it's the first real-time e-commerce application on campus."

The beauty of the system is that when users submit their credit card information, it goes directly to Mirapay, a fully encrypted secure site managed by CIBC. The next day, CIBC deposits the money into the University's bank account. The bank also issues a report to Financial Services' Revenue Control that tells how much e-commerce revenue is being generated on a daily basis.

The advantage for U of G is that it's not asking for or storing credit card information, says Badger. "It's less trouble for the University and more secure for the client. It's tightly controlled, and the University has no additional burden for new procedures."

Although the IS/@access Web site is the first unit on campus to go into production using this service, it won't be the last, Badger predicts. "CCS will continue working with Financial Services and Audit Services to refine the process and make it easier for other campus units to follow the IS/@access e-commerce experience."

With landscapehorticulture.net up and running, Culp's team is waiting to see what impact it will have.

"For a year and a half, everybody in this office has been dedicated to this task in addition to their regular jobs," he says. "It's a great relief, a great sense of accomplishment, an unbelievable sense of satisfaction. It's been critical for us to get this done. It's critical to start seeing results."

BY STACEY CURRY GUNN

PEOPLE

GRAD STUDENTS RECOGNIZED BY EXERCISE PHYSIOLOGISTS

Greg Steinberg, a PhD student in the Department of Human Biology and Nutritional Sciences, has received the Muscletech Graduate Student Award from the Ontario Exercise Physiology Society for his research on "Leptin Increases Fatty Acid Oxidation in Lean but Not Obese Human Skeletal Muscle: Evidence for Peripheral Leptin Resistance." M.Sc. student Angela Smith was a finalist for the award for her work on "Therole of AMP-Kinase as a Regulator of Leptin's Stimulatory Effects on Fatty Acid Metabolism in Rodent Skeletal Muscle." Both students are supervised by Prof. David Dyck.

PHILOSOPHER GIVES TALKS

Chris di Carlo, a sessional in the Department of Philosophy, gave two papers at the University of Iceland last semester. He spoke on "Establishing a Decision Procedure for Informed Consent" and "Evolution and Human Reasoning." He also spoke twice at the University of Toronto, presenting the paper "Epistemic Responsibility: Why a Skeptic Needs to Be a Really Good Pain in the Ass" to the Ontario Skeptics Society for Critical Inquiry and "Evolution and Morality: Why We Behave Like Animals" to the Toronto Humanist Association.

ABSTRACT EARNS KUDOS

An abstract by Marina Mourtzakis, a PhD student in the Department of Human Biology and Nutritional Sciences, will receive the Research Award for Clinical Investigation from the endocrinology and metabolism section of the American Physiological Society at a meeting in New Orleans in April. The abstract is titled "Pyruvate Dehydrogenase Active Form and Carbohydrate Utilization During Prolonged Exercise."

CIP DIRECTOR TO CONTINUE

Prof. Jim Shute, who retired as director of the Centre for International Programs at the end of December, has agreed to continue as director on a part-time basis until the end of April while a replacement is being sought.

IN MEMORIAM

Mert Alcorn, a retired staff member in the Department of Physics, died Jan. 22 at age 90. He was a machinist from 1970 until retiring in 1977, then returned to work part time until 1992. He is survived by his wife, Geraldine; his daughter Wendy; and his granddaughter, Laleh. He was predeceased by his daughter Beverly. A tree will be planted in his memory in the Wall-Custance Memorial Forest in September.

In the Jan. 16 "In Memoriam" notice for OVC staff member Shirley Goemans, it was reported that she is survived by her husband and son. She is also survived by a daughter.

Botanist Brews Up Solution to Coffee Conundrum

Researcher looks at how to coax coffee plants to germinate more consistently

PROF. DEREK BEWLEY, Botany, has been spending more of his time on coffee recently — not in the coffee shop but in the laboratory. In a year-old research partnership with investigators and growers in Brazil, he's studying coffee beans in hopes of helping growers in that country solve a problem that has been percolating for years: how to coax coffee plants to germinate more consistently.

With coffee shops appearing to sprout on every street corner in our part of the world, it might be hard to believe that anyone has trouble growing coffee plants, particularly in Brazil, which is Canada's second-largest source of coffee after Colombia, according to the Coffee Association of Canada.

To understand why, take another look at those thick-coated beans on display in the grocery store or your favourite coffee shop. Now imagine a tender embryo trying to muscle its way out. How the embryo gets out of that hard structure is a serious concern for the coffee industry, says Bewley, referring to the farmers whose livelihood rests partly on their success in coaxing new plants out of those obstinate beans.

(By the way, although we call them beans, coffee is actually a seed. There are two seeds tucked inside each of the fleshy berries that grow in clusters on the plants.)

For a seed biologist like Bewley, it's an intriguing research problem not unlike the one he was studying more than 20 years ago at the University of Calgary. Then he was looking at other kinds of seeds — notably lettuce and tomato — whose tough "coats" contained sugars stored not as starch but as hemicelluloses. (These compounds are what give shiny paper its glossiness.)



Prof. Derek Bewley hopes to help Brazilian coffee growers zero in on better beans.

PHOTO BY MARTIN SCHWALBE

Although scientists had known for decades that these compounds were involved in sugar storage, Bewley was the first to connect hemicelluloses with dormancy and germination processes.

In hard-walled seeds, the embryo induces enzymes to be made that help chew away at the "coat" and allow germination to occur. The three or four main wall-busting enzymes produced in the tomato are also made by the coffee seed.

By studying these enzymes and the genes that control their production, Bewley hopes to learn more about their role in coffee germination and help growers zero in on better beans.

Referring to his South American partners, he says: "They need good, quick assays."

As with growers in other parts of Central and South America, farmers in Brazil "essentially live and die" by international coffee prices set at harvest time, says Bewley. "If it's a poor price, then the whole crop is poor."

The ultimate goal of his work is to help growers avoid those vagaries by speeding up and smoothing out germination rates. That was what researchers at the Federal University of Lavras, a mainly agricultural university in southeastern Brazil, had hoped for when they contacted Bewley in the spring of 2000. So did the Brazilian government, which is funding the coffee project.

"Understanding the germination mechanism and the regulation of germination, we may be able to speed up seed germination, with

benefits to the coffee growers in Brazil," says Amaral da Silva, a graduate student from Lavras who came to Guelph to work with Bewley last year. Da Silva is now studying in the Netherlands under the supervision of one of Bewley's research collaborators.

Last spring, Bewley visited Brazil to give an inaugural seed biology course to about 200 growers, university researchers and government workers in Lavras, located amid rolling hills northwest of Rio de Janeiro. "It's the only coffee-growing region in Brazil," Bewley notes.

Under a memo of understanding between U of G and Lavras, he expects to do more teaching in Brazil and to see more Brazilian students come to Guelph to learn about his research technology.

Why Guelph? "In Brazil, they have the enthusiasm but not necessarily the means," says Bewley, who came to U of G in 1985 because of the University's strengths in plant biology. His lab is one of only a handful worldwide that study these particular enzymes and their role in breaking down hemicelluloses. "It's easier to develop the technology and tools here," he says.

Da Silva adds that Brazil turned to Bewley because of his many years of work on seed germination and his renowned expertise in seed science research.

Bewley labels himself as a seed biologist, not a "coffee guy." And that applies not just in the lab but at the coffee shop as well. Although coffee is the favoured hot beverage of Canadians, who drink more than 15 billion cups of java every year, Bewley prefers tea.

"Coffee doesn't like me," he says.

BY ANDREW VOWLES

OVMA Honours Service to Veterinary Medicine

Internationally renowned for her research, biomedical scientist defines success as her ability to develop people

WHEN Prof. Anne Croy, Biomedical Sciences, stepped up to receive a merit award this month from the Ontario Veterinary Medical Association (OVMA), what was she thinking about?

Perhaps her role in an expert round-table discussion of environmental toxicants and premature births convened last October by the National Academy of Sciences and transmitted by Webcast to the U.S. Congress. Or maybe her year-old research project involving collaborators at Guelph and in Buffalo studying human uterine cells during pregnancy. Or perhaps her planned trip to Mauritius later this year as an invited speaker at an international gathering of experts in pre-eclampsia, a potentially fatal illness that causes high blood pressure in some women during pregnancy.

"She's done such an enormous body of research," says Laura Sharp, manager of community and public relations with the Milton-based OVMA, which recognized Croy for her distinguished public service to the profession of veterinary medicine.

Ask Croy herself how she defines success as a busy researcher and veterinary scientist, and she comes up with a slightly different answer.

Recalling the four-year hiatus she



Prof. Anne Croy

PHOTO BY MARTIN SCHWALBE

took from the laboratory early in her research career to help her husband establish a veterinary practice in St. Catharines just over 25 years ago, the 1969 OVC graduate says: "I didn't come back into science to be outstanding and win the Nobel Prize. Many times I've told others that I'm involved in people development."

That phrase resonates with Croy's current and former students, who are now exploring research careers of their own.

Angie Borzychowski's interest in reproductive immunology led her to Croy's lab during her third year to

discuss ideas for an undergraduate research project. She attended several research conferences and eventually landed an Ontario Graduate Scholarship. Now working on a master's degree in biomedical sciences, Borzychowski hasn't decided yet whether to apply to medical school or continue on to do her PhD. For now, Croy has helped her arrange a trip to Oxford to spend a full year working with the world's expert in pre-eclampsia.

After studying veterinary medicine in his native Iran, Ali Ashkar came to Guelph about five years ago based on the reputation of both the University and Croy's work in reproductive immunology.

"I think she's an excellent adviser," says Ashkar, who is now doing post-doctoral work in pathology and molecular medicine at McMaster University.

In 2000, he was one of 16 students worldwide — and the only one from a Canadian university — selected to attend a short course in reproductive biology at the marine biology laboratory in Woods Hole, Mass. "I was chosen as one of the candidates based on the publication I had and the reputation I got from Anne's lab," he says.

Croy's lab investigates the role of specialized lymphocyte cells called

natural killers (NK), which dilate blood vessels as the uterus grows to prevent blood pressure from rising out of control. Working with mouse models she began developing with her Buffalo collaborators while working at Brock University, she's found that lack of NK cells in the uterus can cause reproductive problems and may affect growth of children.

Last year, Croy received a three-year grant worth almost \$250,000 from the Canadian Institutes of Health Research (CIHR) as part of a team researching the role of NK cells. "That's unusual for a veterinary scientist," she says. As a principal collaborator, she is working with fellow researchers at Guelph and at Roswell Park Cancer Institute in Buffalo, where she's an adjunct professor. In an extension of this work involving collaboration with a University of Western Ontario researcher, Croy is following the pregnancies of 60 women undergoing embryo transfers, ultimately in hopes of finding a diagnostic test that will predict women's likelihood of developing the illness.

"Hypertension is one of the most common complications of pregnancy," she says. "We think these cells relate to hypertension."

Her work on mouse lymphocytes

and hormones with a researcher at the National Institutes for Health led to last year's invitation to the National Academy of Sciences round table. "I felt like I was in left field, but they were interested in my work," she says.

So are the world's leading scientists in pre-eclampsia, who will attend this fall's Mauritius conference. Known to the ancient Egyptians, pre-eclampsia was long thought to be a nervous disorder. But Croy says it's a disease of the placenta in which genetics and immunology play a role. "We're suggesting there's a lymphocyte function involved that they can monitor."

She is also the U of G site coordinator for a recent CIHR grant application to fund a proposed training program involving about 30 researchers from Toronto, Western and Guelph. The group hopes to establish a cross-disciplinary program in perinatal health that would offer training not available at any single institution. "These are to be the elite researchers involved in CIHR programs," says Croy.

Her Guelph co-applicants are Profs. Allan King and Jonathan LaMarré, Biomedical Sciences, and Prof. Susan Evers, Family Relations and Applied Nutrition.

BY ANDREW VOWLES

BOARD OF GOVERNORS

THE UNIVERSITY OF GUELPH'S Board of Governors is responsible for overseeing the general policies and fiscal and administrative management of the University. The board consists of the chancellor, the president, seven members appointed by the board, three alumni appointed by the board, four lieutenant-governor order-in-council appointees, two staff members (one of whom is a graduate of the University) elected by U of G staff, three faculty members elected by Senate and three students (two undergraduates and one graduate student) elected by their peers. At the December meeting of B of G, vice-chair Michael Walsh was named chair designate, with his three-year term to begin July 1, 2002, and Rita Burak and Douglas Derry were named vice-chairs, effective immediately. The following is a complete listing of the 2001/2002 Board of Governors.

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Hulb Quist
U of G Student



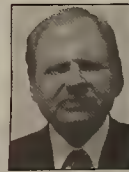
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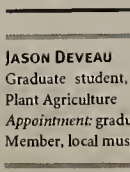
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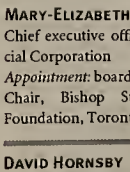
F. MICHAEL WALSH,

VICE-CHAIR/CHAIR DESIGNATE

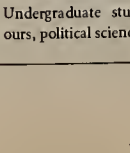
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U of G graduate: BA 1969, MA 1970, PhD 1992



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Graduate student, Department of Plant Agriculture
Appointment: graduate student
Member, local musicians' group



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Appointment: undergraduate student
BA student senator

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IMMIGRATION STANDARDS TOO HIGH FOR MOST CANADIANS

"Much of Canadian immigrant regulation seems to be driven by the selfish pursuit of economic gain, rather than by motivations of democracy and equality"

BY HARALD BAUDER

IF CANADIANS HAD TO REAPPLY for resident status in Canada, Citizenship and Immigration Canada would reject the vast majority of them based on newly proposed immigration standards. In a statistical exercise, the proposed selection guidelines were matched with data from the 1996 census to examine how many Canadians would actually qualify to immigrate to Canada as skilled workers. The results indicate that immigration standards are too high for most Canadians to qualify.

According to former Immigration Minister Elinor Caplan, the new legislation seeks to attract skilled workers who can outperform the Canadian-born population in the labour market within a few years of their arrival. Caplan disclosed in an interview with the *Toronto Star* that "the hard-working blue-collar immigrants who built this country" are a relic from the past. Instead, she was "looking to bring people here that will integrate and succeed quickly" in the knowledge-based economy. The new minister, Denis Coderre, is likely to share this view.

The higher bar for immigration candidates implies that Canadian workers are lacking the qualities needed in today's labour market. The stricter immigration policy ensures that Canada balances this lack with more desirable human capital from developing countries, whose skills far exceed those of the average Canadian. In fact, most Canadians would be denied entry to this country under the proposed legislation.

Most Canadian applicants would be knocked out in the first round. The category "skilled worker" applies only to managers, professionals, technical and skilled traders, and paraprofessionals. Canadians in all other occupations would not even be considered for immigration under the skilled-workers category. Those who do would be subjected to a rigorous point system.

The newly proposed point system awards points on the basis of education, official languages, work experience, arranged employment, age and adaptability. Of these criteria, education, official languages and experience make up 70 points out of a total 100. Caplan had suggested that anyone with fewer than 80 points would not be admitted to Canada.

Most people who grew up in Canada, of course, speak at least one of the two official languages, and because they're Canadians, they would certainly be considered highly adaptable to Canadian society. They would score much higher in these categories than non-Canadians would. In addition, many Canadians already have jobs here and would obtain the 10 points for arranged employment. Canadians would have a big advantage over foreigners who apply for immigration from their countries of origin.

Despite this advantage, only 26 per cent of Canadian-born

men and 20 per cent of Canadian-born women over age 18 would qualify for immigration under the proposed skilled-workers program. Only 33 per cent of those in the desirable 21 to 44 age category, which gets the full 10-point age credit, would be eligible to land in Canada.

There are provincial differences. Those most likely to pass immigration standards reside in Yukon and the Northwest Ter-

"If we continue to drain poor countries of their human capital investments, the global divide between First and Third World will probably deepen. Moreover, if we don't change our perspective on immigration, our greed will render the equality of human beings mere rhetoric rather than a valued principle of our world."

ritories, where 28 per cent of all residents over 18 would pass the test. Only 18 per cent of New Brunswick's population would make the cutoff. In Ontario, 25 per cent would qualify as skilled immigrants.

Canadian-born residents of large metropolitan areas would be more likely to qualify for immigration status than people living elsewhere. For example, 31 per cent of the Toronto population, 29 per cent of the Vancouver population and 21 per cent of the Montreal population would qualify for admission. Only 19 per cent of the non-metropolitan population would be eligible.

What do the high standards for immigration reveal about

the agenda of our immigration policy? Caplan made no bones about it: the skilled-workers program is designed to give Canada a leading edge in a competitive global economy. From a purely economical viewpoint, it would probably be most advantageous to strip all "unskilled" Canadians of their citizenship, expel them from the country and replace them with the "best and brightest" immigrants the new policy seeks to attract. Such a policy, however good for the economy, would likely be unpopular among Canadian voters.

The reality that most Canadians can't live up to the standards of Canadian immigration policy raises some serious ethical issues. There is the fundamental problem of treating people differently simply because they were born in a different part of the world. The selection of prospective immigrants is based on a yardstick that most Canadians are unable to live up to. This differential treatment seems to contradict

Canadians' keen sense of justice, equality and democracy.

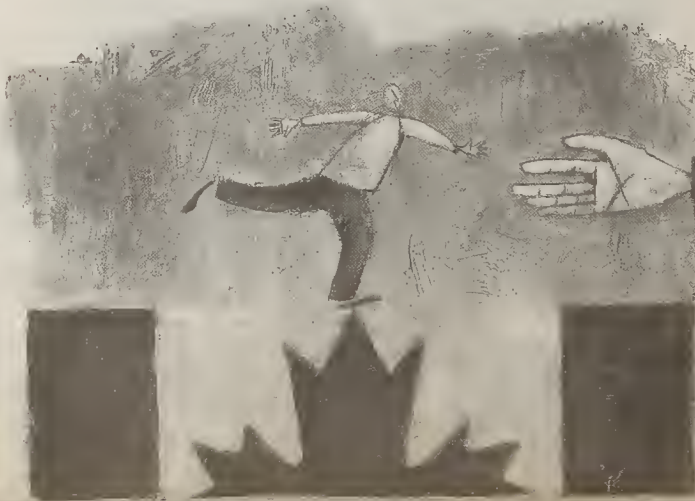
Also, by tapping the world's "best and brightest," all Canadians can supposedly enjoy the economic benefits that economists predict will trickle down from the immigrants' labour. Whether this will actually happen or not, Canada's gain will be the other countries' loss, and this loss is felt most acutely in the developing world, which loses its best and brightest. This policy of luring skilled workers from poor countries contradicts efforts of the international community to help these countries.

Much of Canadian immigration regulation seems to be driven by the selfish pursuit of economic gain, rather than by motivations of democracy and equality. True, thousands of refugees are saved every year from political persecution and admitted to Canada based on humanitarian grounds, and tens of thousands more are happy to unite with their loved ones in Canada through the family-class immigration program. But through the skilled-workers program, Canada recruits the immigrants it deems most suitable for Canada. In this program, the paradigm of economic gain overrides the goal of equality that we claim to embrace.

If we continue to drain poor countries of their human capital investments, the global divide between First and Third World will probably deepen. Moreover, if we don't change our perspective on immigration, our greed will render the equality of human beings mere rhetoric rather than a valued principle of our world.

As an immigrant myself, I am aware that I was selected to settle in this beautiful country because of my human capital. But to my community, I hope that my contribution does more than make Canada a competitive economy.

Prof. Harald Bauder is a faculty member in the Department of Geography.



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'YOU MUST HAVE IMPACT'

For award-winning professor John Walsh, teaching and learning are a full-contact sport

BY LORI BONA HUNT

ALIFETIME'S WORTH of business knowledge was bundled up in brown paper and handed to John Walsh when he was 14. He didn't realize it, of course.

The director of the School of Hotel and Food Administration and associate dean of the Faculty of Management was working as a butcher's boy in his native England at the time. Every day after school, he would fill up the basket on his bicycle with meat orders and ride around town making deliveries.

Some 38 years later, Walsh now knows that education can come in all sorts of packages, even wrapped in brown butcher paper. And making those deliveries provided him with some invaluable lessons.

"I would ride, for example, to Mrs. Brown's house, and when I'd hand her the chops or whatever, she might say: 'I hope they're better than last week's, and I'd answer: 'They're great, I saw Frank cut them myself,' and I meant it," Walsh says. "Then she'd say: 'Well, that's good enough for me' and hand me the money, and I'd get back on my bike and go on my way."

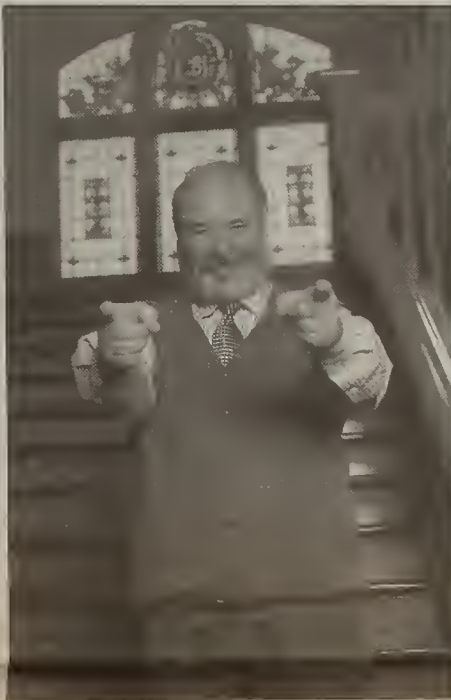
It was the kind of behaviour his butcher boss, Frank, expected. Frank also asked that Walsh be prompt and honest, and in exchange, he treated the boy with gratitude and respect.

"More than anything else, Frank knew that how his customers felt about the butcher shop had a lot to do with how they felt about Frank's butcher boy," says Walsh. "If Frank's butcher boy was happy about his job, it affected customer perception of the business. These are the kinds of things Frank taught me, things I would later learn all over again in university. I would have been a whole pile smarter, I suppose, had I realized I was learning them then."

But, Walsh adds, education is a never-ending process, and one must be humble enough to admit there's always more to know. That's a philosophy he instils in his students, whether they're at U of G or industry executives at the top of their field. It's also an outlook that has just been recognized by two prestigious education awards.

In December, *Hotelier* magazine named him "Educator of the Year" for his contributions and dedication to improving the hotel industry. This April, he will receive the Ontario Hospitality Institute's Gold Award in the "educator" category. This peer-selected award recognizes his commitment to building programs at Guelph devoted to management in the hospitality and tourism industry.

Walsh is modest about the awards, saying they recognize the school's accomplishments as much as his own. The school, which Walsh has officially directed since 1998, recently admitted the largest incoming class of students in its 32-year history. It has also launched new distance and MBA programs, while continuing its tradition of providing executive courses for professionals. But true to the lessons Walsh learned earlier in life,



what people think about the school has a lot to do with what they think about its director. Put it that way, and Walsh graciously accepts the recognition.

"I went into this knowing it's a tough business," he says of being an educator. "People have come to you to learn, and you are responsible for finding a way to effectively communicate material from a textbook, to breathe life into it. To me, teaching and learning are a full-contact sport — you must have impact."

"Impact" is the exact word that Peter Dutton, general manager of Coast Harbourside Hotel and Marina in Victoria, B.C., uses when describing Walsh, who does regular training sessions for the hotel chain.

"John has had a huge impact because he is one of the few educators who realizes that the industry is the end user of what he produces, and he produces people we can use."

Dutton also participated in HAFA's Advancement Management Program for the Hospitality Industry (AMPHI), a two-week residence program at Guelph for senior managers.

"As an educator, John is encouraging and involves everyone in the room," says Dutton. "He uses self-deprecating humour and tells stories, saying things that make you want to discuss them with him or with your classmates later on. He's a master at that."

But it's Walsh's commitment to lifelong learning that has most influenced Dutton personally. "I'm 55, and back in my day, you got your degree in hotel management and then you would go on and leap tall buildings." But times have changed, and managers have to stay up with "the young people Guelph turns out every year," which is why Dutton enrolled in the AMPHI course.

"I remember having a talk with John about it, and I've never forgotten it, because he put it in motor vehicle terms. He said if you wanted to buy a car, you wouldn't buy one made in 1967 (the year I got my degree). You would go out and buy a new car." But taking the AMPHI course was like buying a 1967 car and putting in a new engine, Walsh told him. "Because you know what happens when you do that, don't you?" Dutton says. "That old car becomes a hot rod, and people buy hot rods."

It's interesting to note that Walsh never planned to be an educator. In fact, despite family expectations, he didn't go straight to university after high school. He started out as a trainee manager, working his way up to be an assistant technical manager in quality control.

"What I remember most about those years is that the other fellows on my shift all had university degrees. I remember that at junior management meetings, there was always that distinction. I used to go home — I was married by then and had a young child — and complain to my wife, Irene, about it. She finally said: 'Why don't you stop talking about it and do something.' So I did."

Walsh enrolled in Thames Polytechnic in England, studying political economy. It was on the advice of one of his Canadian professors that he came to Canada, taking a job as an instructor in the tourism and travel counsellor program at Fanshawe College in London. While there, he enrolled in the MBA and PhD programs at the University of Western Ontario, studying operations management. Later at Wilfrid Laurier University, he worked as an assistant professor.

Walsh believes that to be an educator, you must have humility. "And it can be the hardest thing about this sport. You have to stand in front of a room and be honest with yourself, because there are a goodly number of people in that room who are smarter than you are, and in all kinds of ways will have tremendous success in their careers."

He stays inspired by remembering the reason he's in the classroom: to have an impact on his students, no matter their age or occupation, even if they don't realize just how much they've learned until later in life.

Frank the butcher would be pleased.

PHOTO BY MATTHEW ANDERSON

Introduced Salmon Could Be Hurting Native Fish

PACIFIC SALMON that have been stocked in the Great Lakes could be preventing depleted populations of native Atlantic salmon from recovering, say researchers.

Findings of a study conducted by Profs. David Noakes and Bill Beamish, Zoology, and Robert Scott of the University of Western Ontario reveal that introduced species are disrupting the social hierarchies set up by native Atlantic salmon.

The researchers examined the behaviour, feeding and spawning habits of both native and introduced salmonids — including chinook salmon, coho salmon and rainbow

trout — in the Great Lakes. They found that the exotic species, especially chinooks, show little regard for Atlantic salmon, and physically and aggressively try to displace them if they're in the way. As a result, in the presence of Pacific fish, the Atlantics change their behaviour.

"They are getting pushed around by the exotics," says Noakes, "so they spend more time being aggressive and bumping each other around than they do feeding, digging nests and reproducing."

By the end of the 19th century, Atlantic salmon had been depleted in the Great Lakes by overfishing and

habitat loss. Since the 1960s, Pacific salmon have been stocked in Lake Ontario for sport fishing.

"There have also been many attempts to restore Atlantic salmon, and all have been met with little or no success," says Scott. "We're trying to determine if the Pacific salmonids are inhibiting the restoration of these native fish."

The researchers examined the interactions between Atlantic and Pacific salmon on spawning grounds in a creek near Oshawa that flows into Lake Ontario. The creek was divided into sections, with Atlantic salmon in all the sections and Pacific chi-

nook salmon in only half. This way, they could observe how the Atlantic salmon behaved both alone and with Pacific salmon. They also studied their survival and spawning habits.

"Then we will put the pieces of the pie back together and see at what level the fish are successful and, if not, where the weak link is in the chain," says Noakes.

Ultimately, the researchers hope to create a sophisticated model that can be used to make predictions about the survival of salmon on the west and east coasts.

Noakes adds that it's important to keep in mind that Atlantic salmon

are "the villains or the heroes," depending on which part of the country you're in.

"On the west coast, Atlantics are the introduced exotics and are wiping out the natives, so they are considered the 'ultimate evil.'"

The research is a collaborative project involving several universities and is sponsored by the Natural Sciences and Engineering Research Council, the Ontario Ministry of Natural Resources and the Department of Fisheries and Oceans.

BY LUCAS HABIB,
SPARK PROGRAM,
AND LORI BONA HUNT

Learning Technology Focus of Conference

TEACHING SUPPORT SERVICES, the Office of Open Learning and McGraw-Hill Ryerson are hosting an educational technology conference Feb. 22 and 23 in the Thornbrough Building. Focusing on "Student Success: Learning With Technology," the conference will explore keys to enhancing student learning through technology in higher education.

It will be of particular interest and benefit to university and college faculty and teaching assistants who use — or are thinking of using — technology-assisted learning and to the professional staff who support these efforts.

Feb. 22 will feature a panel session on supporting student success, moderated by broadcast journalist Ann Medina, and a keynote talk by Carl Cuneo, faculty co-ordinator of

LearnLink, a campus-wide online learning system at McMaster University and program leader of the Network for the Evaluation of Education and Training Technologies. Cuneo will discuss "Student Success Factors in the Use of Learning Technologies."

On Feb. 23, keynote speaker Tim Pynch, a faculty member at Carleton University and a 3M Teaching Fellow, will explore "Teaching Excellence and the Wired Professor."

U of G faculty and staff receive a special conference rate of \$50, but are encouraged to register early because these spots are limited. Regular registration is \$80 before Feb. 8 and \$99 after. The conference will be limited to 150 participants.

For more information and registration, visit the Web site www.open.uoguelph.ca/edtech.

Week Celebrates Natural Sizes

U OF G IS MARKING Celebrating Our Natural Sizes Week Feb. 4 to 8 with a series of events and displays on campus. On Feb. 4 at noon, the WETT Drama Troupe presents "Friends in Need Need Friends Who Lead" and "Self-Esteem, Body Image and Steroids" in Room 103 of the University Centre. Acceptance Without Limits (AWL) will also have displays in the UC courtyard.

On Feb. 5, AWL presents "Celebration of Styles," a showcase of fashion that represents the diversity of sizes, shapes and ethnicities on campus, at 8 p.m. in the Whiptree.

On Feb. 6, AWL teams up with Student-to-Student Support Services to present a motivational talk by marathon swimmer Vicki Keith at 7 p.m. in Room 100 of the Axelrod Building. Keith is the coach of Ashley Cowan, the first person with a disability to swim across Lake Erie.

At 8:30 p.m. on Thursday and Friday, the Wellington-Dufferin-Guelph Eating Disorders Coalition presents *One Of*, a play by Melissa Patterson, in Lower Massey Hall.

The week wraps up Feb. 8 with a day of acceptance on the Raithby House porch from 10 a.m. to 3 p.m.

For more information, call Andrea Luey at Ext. 4066.

There's No Place Like Dome

Covered sports field a boon for noon-hour soccer enthusiasts



Members of the lunchtime soccer league battle it out for the ball, upholding a tradition that is almost three decades old.

PHOTO BY MARTIN SCHWALBE

THEY'RE ALL AGES and represent many walks of life: professors, students, technicians, accountants, retirees and alumni. But shortly after noon three days a week, they all stop whatever they're doing, wherever they're doing it, and head to the same place: U of G's new Gryphon Dome.

They don't know who will be there or how many, but it doesn't matter. They know there will be a soccer ball, a dry playing field and enough other half-crazed soccer enthusiasts for an invigorating pick-up game.

"It is high-calibre, high-intensity soccer and very competitive," says Will Rowe, development manager for CPES/CBS, who started playing with the "lunchtime league" a couple of years ago. "The mixture of ages makes it all the better. The more senior players may not have the fitness level they once had, but they're smarter on the ball. The younger players can run forever, but their soccer brains can't match those of the older players."

No one knows for sure how long this "league" has been around, but it's been more than 28 years — at least that's when the oldest players who still participate remember joining.

"That's when I started playing, but it was already going at the time, so I don't know for sure how long they've been doing it," says Prof. Lambert Otten, director of the School of Engineering, who spent his childhood playing soccer in Holland.

"We have a cross-section of skills and ages," Otten says, adding that during the warmer weather, they are often joined on the field by 76-year-old retired machine shop worker Vladimir Pavlick and sometimes his son and grandson. "Anyone who wants to play can show up — we don't have any restrictions. But we play hard, we play to win. If we didn't, we'd all have given it up a long time ago."

The group plays on U of G's soccer field during the spring, summer and fall, and when the snow starts to stick, they take their game indoors. But until last year, that seasonal transition was never an easy one.

"During the winter, we've played in virtually ever facility we could find our way into," says Prof. Richard Reid, History, who also started playing with the group 28

years ago. "We played in the west balcony of the Athletics Centre before it was changed into a circuit room, under the football stadium in what is now the Gryphon Room and even in the little-known rifle range in the basement of the Athletics Centre."

But things changed when U of G students voted in 1998 to build the \$2-million Gryphon Dome, which marked its official opening Jan. 10. The metal structure (built by Guelph graduate Ben Hogervorst, president of Cover All Building Systems) is covered with a special weather-resistant fabric that allows for year-round use. It's also 55 feet high, which means players can kick the ball as high as they want without worrying about things like ceilings.

Half the size of a football field, the complex is open to the entire community and includes a four-lane track and two indoor soccer fields with artificial turf. It provides indoor training space for varsity athletes and accommodates thousands of students who participate in intramural sports.

The facility, which will be the site of this year's summer convocation, has also been used for Alumni Weekend, special events, coaching clinics and Guelph youth soccer.

"It's a state-of-the-art facility, the best I've ever played on — the footing is really good," says Reid, who played soccer in university. "Of course, when you fall, it feels like you've hit a Brillo pad."

On this particular day, he manages to stay on his feet and even does a couple of headers. When it's pointed out that his skills still seem intact, Reid says: "Well, even though I've lost most of my speed, I still cheat really well and I can keep score like an Enron accountant."

BY LORI BONA HUNT



Bad news: you can't compete unless you're a master of e-Business technology.

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Graduate Seminars Support Transition to Work

Upcoming session to focus on job searches

GRADUATE STUDIES has organized a series of seminars to help graduate students make the transition from school to the world of work.

Graduate students often have different information needs than undergraduates do, says graduate studies dean Isobel Heathcote.

"We're working with faculty and Career Services to deliver specific advice that's geared to somebody a little further along in life than the average undergraduate student would be," she says.

Most grad students don't go on to an academic career, Heathcote notes, and "they need support for the transition to the workplace, whether that's industry, government or other sectors. It's sometimes hard for students who've done a highly academic or applied research degree to see how they can apply it to other work."

To that end, Graduate Studies has offered seminars on career planning, and transferable skills, writing a résumé or CV, and interview and job search skills.

The "World of Work" sessions also provide advice for the approximately 15 per cent of graduate students who do plan to continue in academia.

A Jan. 16 seminar dealt with the stresses that many graduate students face in balancing work, family and leisure time. Profs. Susan Brown, Literatures and Performance Studies in English, and Andrew Bailey, Philosophy, shared their experiences and strategies for coping with the stresses of career and family.

"There seems to be a perception out there that you can't have an academic job and have a family, too," says Heathcote. "It's important to discuss the way people find a balance, the obstacles they face, and the solutions they find."

Upcoming seminars will focus on the academic job search Feb. 13, conflict resolution March 6 and personal financial management April 3. They run from 12:30 to 2:30 p.m. in Room 103 of the University Centre.

U of G Students Have Soy Many Ideas

Project SOY aims to create new uses and marketing strategies for Ontario soybeans

UOF G STUDENTS are zeroing in on the health and environmental benefits of soy in this year's Project SOY (Soybean Opportunities for Youth).

The contest, created and sponsored by U of G and Guelph-based First Line Seeds, invites students to create new uses and marketing strategies for Ontario soybeans and turn them into marketable products, earn cash awards and make contacts with industry.

This year's participants have come up with 15 innovative uses for soybeans, focusing on soy's unique properties to create both environmentally friendly and people-friendly products.

For example, some student teams are working to create soy-based oil paints, as well as ski and snowboard waxes. Waste reduction is a priority for other teams who are using by-products from soy processing to create substitutes for cork and a line of all-natural leather-care products.

Two other groups are concentrating on decreasing pollution created by vehicles. One is working to replace chemically based fuels and fluids in farm machinery with soy-based fuel; the other is creating a natural alternative to petroleum-based car wax. Soy is also being used as a more natural alternative to chemical ingredients in cosmetics and personal-care products.

Students developing food products are making the most of soy's health benefits — from staples like noodles to snack foods, including a soy-enriched gum designed to lessen



First Line Seeds president Peter Hannam and Project SOY co-ordinator Erinn White go over the contest entries. PHOTO BY MARTIN SCHWALBE

the symptoms of menopause.

But humans aren't the only ones who can profit from soy's healthy traits. Two nutrition students are incorporating soy into healthy treats for dogs.

First Line Seeds first challenged Guelph students to help change the

way the public thinks about soybeans six years ago. Since then, contest participants have created more than 35 new products.

Last year's winners included "SOYlutions," a biodegradable and edible form of packaging designed to replace Styrofoam and cardboard; a

feline soymilk; an iron supplement; low-fat brownies; paper made from soy byproducts; and an antiperspirant.

"I continue to be impressed with the ideas that students put forth," says First Line Seeds president Peter Hannam. "The initiative they've shown is truly remarkable."

The contest is open to students enrolled at U of G and its affiliated colleges in Kemptville, Ridgetown and Alfred. They compete in two categories — undergraduate/graduate and diploma — with each offering prizes of \$2,500, \$1,000 and \$500 for first, second and third place, respectively.

Students who enter Project SOY aren't stopping at the awards ceremony. Additional industry support has enabled the University to become more proactive in helping students who want to market their product (see sidebar below.)

Students wanting to continue their research or commercialize their products can now also apply for assistance from the Hannam Soybean Utilization Fund, a \$1-million program established by the Hannam family to support innovative soybean research at U of G.

Project SOY is also supported by the Ontario Soybean Growers, Maple Leaf Foods International, Yves Veggie Cuisine and the Ontario Ministry of Agriculture, Food and Rural Affairs.

Student projects will be judged April 3.

BY ERINN WHITE
SPARK PROGRAM

Udder Balm Has Market Potential

ONE OF LAST YEAR'S winning Project SOY products is a potential moneymaker, according to U of G's Business Development Office (BDO).

Udderly Soyft, a cream that soothes sore cow udders, is the invention of Kemptville College student Jason McIntosh. It won Project SOY's \$2,500 first prize in the diploma category.

"We are actively trying to commercialize it," says Sheldon Kawarsky, the BDO's technology transfer manager. Kawarsky is talking to manufacturers and distributors, trying to drum up business. "We haven't made any deals yet, but there's interest."

Since the competition, McIntosh has promoted his product at the International Plowing Match, been interviewed on the radio and been featured in a double-page spread in *Better Farming* magazine.

Animals aren't the only ones that benefit from the all-natural cream. McIntosh has also given samples to many people who want to use it

on their own skin, including a burn victim and someone with psoriasis. He reports that one man says the balm soothed his sore feet, which were chafed from long days in work boots. One woman says she uses it on her hands as well as her horses' hooves to keep them from drying out.

"Lots of people have used it, and they think it's great," says McIntosh. "It's an oil base, so it keeps dirt out and moisturizes."

He credits Kemptville professor Wendy Asbil with providing advice as he prepared for the Project SOY competition and fellow student Jesse Mangan for helping in the developmental stages.

Udderly Soyft's soy base is enhanced by lavender, which has a scent with a calming effect and is believed to have antimicrobial properties that minimize the spread of infection. That could be a market advantage over other petroleum-based udder balms, McIntosh says.

Currently, to keep up with the demand for samples, he's making Udderly Soyft in a Kemptville laboratory, aided by his business partner,

student Jason Reid.

Of all the products invented for Project SOY, now in its sixth year, McIntosh's is the closest yet to commercial viability, says Kawarsky.

The BDO started helping Project SOY participants commercialize their inventions two years ago, thanks to additional industry support and guidance from a group of business experts.

"A lot of products and ideas coming out of Project SOY have very strong market potential," says BDO director Connie Hearty. "We can help students protect their inventions and ensure they realize their full commercial potential."

As for McIntosh, the flurry of attention has been great, but he's looking forward to a day when Udderly Soyft might get a chance to compete with the famous Bag Balm, touted as a face cream by country singer Shania Twain.

"I'll be a lot more excited when it's on the market," he says.

BY STACEY CURRY GUNN

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U of G Hopes to Continue With Targeted Investments

Continued from page 2

uncertainty about the growing expenses and important investments universities are facing this year. Hydro is expected to increase by 15 per cent; insurance costs are projected to rise by 15 to 20 per cent. Increased investments are also projected for employee benefits and library acquisitions. In addition, Guelph would like to stick to its plan to recruit new faculty and staff and to continue support for its ever-aging physical facilities.

Overall, universities are likely to see costs rise by four to five per cent in the year ahead, but the government has made no provision to cover these inflation-related expenses, says Miles. Instead, the majority of new provincial funding is tied to increased enrolments. A unique challenge for U of G in 2002/2003, he adds, is the implementation of cuts to the Ontario Ministry of Agriculture, Food and

Rural Affairs budget, which are presenting planning challenges for some colleges and departments.

Despite these challenges, says Rozanski, U of G's hope is to build a 2002/2003 budget that allows the University to continue with targeted investments to support its long-term plans.

"Although several Ontario universities are planning MTCU budget cuts for 2002/2003, I am working with vice-presidents, deans and others to try to avoid these, in order to sustain U of G's multi-year budget goals: planning for growth with quality and accessibility, and balancing and stabilizing the budget."

Specifically, he says, the quality investments proposed for 2002/2003 include funding for academic and teaching support to deal with the flow-through enrolment increase, planned new academic and staff positions, library acquisitions and stu-

dent aid.

"All this is, of course, dependent on several revenue assumptions that are not yet confirmed — and the ability to close any initial gaps to achieve a balanced budget," Rozanski says.

With input from the various groups who will hear the budget context presentation and be involved in the ongoing budget consultation process, a preliminary MTCU budget will be developed for consideration by the Finance Committee of Board of Governors and then by the full board at its April 11 meeting.

Because of the need to give students time to plan for next fall and to enable timely billing notices for students enrolling in the summer semester, the issue of tuition will be dealt with in advance of the overall MTCU budget. It is currently under discussion by the Enrolment Coordinating Committee, which will make a recommendation to the president by the end of February. From there, it will proceed via the Finance Committee to the full board meeting March 7.

As part of this process, an open forum on tuition will be held Feb. 4 at 5:30 p.m. in Room 442 of the University Centre.

OVC Students Staff Pet Loss Hotline

OVC's PET LOSS Support Hotline is open for business, taking calls at Ext. 3694. Trained student volunteers staff the hotline, which operates Tuesdays, Wednesdays and Thursdays from 6 to 9 p.m.

It provides a service for pet owners grieving the death of a pet, offers support for veterinarians and is an educational opportunity for veterinary students. Calls are picked up daily, and those of an urgent nature are returned the same day.

The volunteers are guided by an advisory board made up of OVC faculty, staff and graduate students, including Prof. Cindy Adams, Population Medicine, who specializes in issues related to pet loss and has a graduate degree in social work.

The hotline received a \$10,000 Gordon Nixon Leadership Award last year to support its operation. Funding has also been provided by Waltham's, Gateway Pet Memorial Services and Pet Sure.



TOWARD 2010

Continued from page 2

respondents. Improved means for wayfinding was requested.

• **Accessibility:** Convenient, safe, barrier-free movement for all was promoted.

• **Tradition:** The history of the campus development and the need to protect key elements (specific buildings and landscapes) was felt to be an important element of a future campus plan.

• **Communal space:** A need was identified for more student communal space for social interaction and group study.

Demonstration plans that explore possible solutions in response to the identified issues, needs or values to be protected or enhanced are now being developed, says Prof. Jim Taylor, Landscape Architecture, co-ordinator of the campus master plan review. A presentation will be made at a second town hall meeting to be held Feb. 28 at noon in Peter Clark Hall.

Following a review period, a draft plan will be developed for further consideration and discussion before the end of the semester, Taylor says.

WORK ON CLASSROOM COMPLEX TO BEGIN IN MARCH

Construction of U of G's new classroom complex is expected to begin in early March, with building

completion scheduled for commissioning by May 1, 2003, and ready for teaching in fall 2003. This change in schedule achieves cost savings as a result of eliminating the winter construction premium, says Nancy Sullivan, vice-president (finance and administration).

Photographs of construction progress will be posted on the University Web site after construction begins, along with regular updates on especially disruptive construction activities.

During the 14-month building period, there will be unavoidable noise, dust and construction vehicle traffic, which will cause some disruption to regular activities, says Sullivan. A portion of Trent Lane from Reynolds Walk to the north side of the Bullring and a portion of Reynolds Walk directly south of the construction site will be closed to vehicular traffic. Barricades and signage will be installed to direct pedestrian and vehicular traffic. This closure is essential to ensure the personal safety of members of the University community and visitors, she says.

Sullivan adds that arrangements will be made with the contractor to ensure that construction activity does not disrupt major campus events such as College Royal, convocation, orientation and the Community Barbecue.

Photo Contest

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Laptop computer — Acer Extensa 501DX, Pentium 266 MHz, 32-MB RAM, 3.2 GB, 20X CD-ROM, floppy, 56K modem, Windows 98, Curtis, 837-1594 or mohanc@uoguelph.ca.

Downhill skis, 160- and 180-centimetre, size SX 7.8.9, ski boots, poles; weight bar plus 150 lbs. of weights, Ext. 2622 or gchapman@uoguelph.ca.

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Room in three-bedroom townhouse to share with female professional and dog, YMCA-YWCA area, four baths, rec room, parking, on bus route, non-smokers, no lease, first and last months' rent, send e-mail to am065@hotmail.com.

Three-bedroom apartment on main floor of house, four appliances, parking, fenced yard, no pets, first and last months' rent, available Feb. 1, 766-0430 after 6 p.m.

Three-bedroom townhouse to sublet, three baths, appliances, parking, on bus route, close to campus, available March 1 to Dec. 31, \$1,189 a month inclusive, 767-9793.

Room in condo complex in north-west area, available March 1, \$400 a month inclusive, Violet, leave message at 824-4491.

Furnished bachelor apartment in Normandic, France, sleeps two or three, parking, \$700 for three weeks April to October and \$600 a month November to March, 763-8806.

Young professional seeking roommate to share large two-bedroom apartment in north end of town, must like dogs, 822-6228 after 5 p.m.

Furnished two-bedroom holiday home in Antibes, France, available weekly or monthly; furnished one-bedroom apartment in southwest Paris, Nicole, 836-6745 or fnmoll@webtv.net.

Furnished two-bedroom condo in

Guelph, two baths, ensuite laundry, parking, available Feb. 1, \$1,500 a month inclusive, Carol, 823-1857, 731-1857 or intrent@hotmail.com.

WANTED

Pop-up tent trailer, 10- to 12-foot box, king-sized bed, great shape, Ext. 4596 or avuk@uoguelph.ca.

Furnished bachelor apartment in quiet neighbourhood for mature, quiet student, with laundry, parking and separate entrance, preferably within 30-minute walk from campus, non-smoker, no pets, reasonable rent, 837-0022 or sunflow-ersjo@hotmail.com.

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@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
Feb. 13	Feb. 5	March 27	March 19
Feb. 27	Feb. 19	April 10	April 2
March 13	March 5	April 24	April 16



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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Feb. 3 with "Wilderness Detectives" and Feb. 10 with "Snow in Season." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

The Arboretum's Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays from Feb. 2 to April 27. Doors open at 6 p.m. For tickets, call Ext. 4110.

Madéraz Latin Music presents a Latin fiesta for children Feb. 5 at 6:30 p.m. at the Arboretum Centre. Tickets are \$5 and are available at the Arboretum or downtown at Simply Wonderful.

ART CENTRE

Andrew Hunter will give an artist's talk about his exhibition "In the Pines" Feb. 6 at 12:30 p.m. at the Macdonald Stewart Art Centre.

Opening Feb. 12 at the art centre is "New Acquisitions," featuring the work of nine Canadian artists, including Michael Davey, who will give an artist's talk Feb. 12 at noon.

The art centre is offering art classes for children aged 7 to 12 during March Break. Cost is \$185. Register in person at the centre.

ATHLETICS

The women's indoor hockey team hosts a tournament Feb. 2 and 3.

The women's hockey Gryphons are at home to York Feb. 2 at 2 p.m. and Laurier Feb. 7 at 7:30 p.m. The men's team takes on York Feb. 16 at 7:30 p.m.

The basketball Gryphons host Carleton Feb. 8 and Ottawa Feb. 9, with the women's games at 6 p.m. and the men's at 8 p.m.

Windsor comes to campus Feb. 9 to take on the volleyball Gryphons, with the women's game at 1 p.m. and the men's at 3 p.m.

The men's volleyball Gryphons host a semi-final game Feb. 12 at 8 p.m. and division finals Feb. 14 to 17.

COLLOQUIUM

The Rural Studies Colloquium presents Prof. Marta Rohatynskyj, Sociology and Anthropology, discussing "Cultural Property: Rationales of Ownership" Feb. 8 at 2 p.m. in Landscape Architecture 125.

CONCERTS

The Thursday noon-hour concert series continues Jan. 31 with Michael Wood on vibes and Kevin Moor on bass and Feb. 7 with violinist Koh

Gabriel Kameda and pianist Megumi Masaki. On Feb. 14, Hari Pal performs tabla rhythms. The concerts are in MacKinnon 107. Admission is free, but donations are appreciated.

LECTURES

The Central Student Association Citizenship Working Group presents CBC broadcaster Rex Murphy speaking Jan. 30 at 7 p.m. in War Memorial Hall. Murphy will offer his impressions of politics, the media and what it means to be a Canadian citizen. Admission is \$15.

The lecture series sponsored by the Centre for Families, Work and Well-Being on "The Challenge of Work/Life Integration in Canada" continues Feb. 8 with Prof. Peter Hausdorf, Psychology, presenting "Good Managers Are Hard to Find," Prof. Karen Korabik, Psychology, on "Love It or Leave It" and centre research associate Jennifer Rooney exploring "Flexible Work Practices: Do They Really Work?" The session runs from 11 a.m. to 2 p.m. in the lecture theatre at the Homewood Health Centre. Cost is \$60. To register, call 1-800-445-1798, Ext. 113.

Third Age Learning-Guelph's lecture series for retired people continues Feb. 6 with Joe Whitney discussing "Water Shortage: The Northern Transfer of Southern Water; The Three Gorges Dam" at 10 a.m. and Prof. John FitzGibbon, Rural Planning and Development, on "Volunteers and Rural Communities" at 1:30 p.m. On Feb. 13, Steve Endicott presents "Persistence of Maoist Rural Practice: The Red Earth and the Doudian Phenomena" at 10 a.m., and Prof. Tony Fuller, Rural Planning and Development, considers "The Reality, Challenges and Opportunities of Being a Multi-Community Rural Resident" at 1:30 p.m. On Feb. 7, retired geography professor Fred Dahms examines the "History of Ontario Communities" at 10 a.m. Lectures are at the Arboretum Centre.

NOTICES

The Networks of Centres of Excellence (NCE) program is calling for proposals for new networks to begin operation in fall 2003. Letters of intent must be submitted to the Office of Research by July 8, 2002, and to NCE by July 12. Guidelines are available on the Web at www.nce.gc.ca. For additional information, contact NCE program officers Richard Snell at 613-996-9403 (richard.snell@nce.gc.ca) or Eniko Megyeri-Lawless at 613-947-4501 (eniko.megyeri-lawless@nce.gc.ca).

Remi Quirion, scientific director of the Institute of Neuroscience, Mental Health and Addiction at the Canadian Institutes of Health Research, will visit campus Feb. 6 to speak about the institute, its mandate and goals. The presentation runs from 9:30 to 10:30 a.m. in

MacKinnon 232 and is open to the entire University community. Individual meetings are being organized with Quirion to follow the presentation. To arrange a meeting, contact Lisle Terry at lterry@uoguelph.ca.

March 1 is the deadline to enter Alumni Affairs and Development's contest to find the best winter photo of campus for its 2002 greeting card. For contest details, call Ext. 6934 or visit the Web site www.alumni.uoguelph.ca/contests/photocontest.

Fair November organizers are calling for entries for the 2002 craft exhibition and sale, slated to run Nov. 14 to 18. Application forms are available by calling Ext. 3903 or sending e-mail to lbarring@uoguelph.ca.

HAFa holds its annual Career Fair Feb. 5 from 10 a.m. to 3 p.m. in Peter Clark Hall. Students will have an opportunity to meet recruiters from the hospitality, restaurant and hotel industry. This event will be held in conjunction with the HAFa Careers Night Feb. 6 from 5:30 to 7 p.m. at the Whippetree. For more details, visit the Web site www.uoguelph.ca/HAFa/AboutUs/index.html.

The Advanced Agricultural Leadership Program will hold its annual Dream Auction Feb. 23 at 6:30 p.m. at 1 Stone Rd. For details, call 826-4204.

Agriculture and Agri-Food Canada's Livestock Environmental Initiative is calling for proposals that address environmental concerns through research and development of technology and through acceleration of technology assessment and transfer. Submission deadlines in 2002 are March 18, July 22 and Nov. 18. Proposals must first be championed and technically reviewed by a national livestock organization. For full details, visit the Web site www.cpc-cpp.com.

Gryphons Toastmasters meets Wednesdays from 7:15 to 8:15 a.m. in the Johnson Hall boardroom. The group offers participants a chance to improve their communication skills in a friendly atmosphere. Students, faculty and staff are all welcome. For more details, send e-mail to cdewey@uoguelph.ca.

SEMINARS

The Department of Sociology and Anthropology presents Prof. Hans Bakker discussing "Yoga and the Protestant Ethic: Max Weber and Soteriology" Feb. 1 at 2 p.m. in MacKinnon 621.

"*Escherichia coli* Induces Apoptosis and Proliferation of Mammary Cells" is the topic of Xin Zhao of McGill University in the Department of Pathobiology seminar series Feb. 1 at 2 p.m. in OVC 2106.

Next up in the Department of Zoology's seminar series is Mahejabeen

Ebrahim of the Human Rights and Equity Office discussing "Creating an Inclusive Learning Environment" Feb. 1. On Feb. 8, Hugh MacIsaac of the University of Windsor considers "Biological Invasions in the Great Lakes: The Current Story." Seminars begin at 3:30 p.m. in Axelrod 265A.

The biochemistry series continues Feb. 7 with Deborah Nicoll-Griffith of the Merck Frosst Centre for Therapeutic Research discussing "Characterizing Drug-Protein Covalent Adducts in Drug Discovery: Qualitative and Quantitative Aspects." On Feb. 14, Prof. Richard Mosser, Molecular Biology and Genetics, explores "Prevention of Stress-Induced Apoptosis by the Molecular Chaperone hsp70." The seminars are at noon in MacNaughton 222.

The Department of Microbiology's graduate student seminars continue Feb. 8 with Edie Scheurwater discussing "The Cloning and Characterization of YfhD: A Putative Lytic Transglycosylase From *Escherichia coli*" at noon in Food Science 128.

THESIS DEFENCES

The final examination of Christina Clark, an M.Sc. candidate in the Department of Human Biology and Nutritional Sciences, is Feb. 5 at 9:30 a.m. in Animal Science and Nutrition 336. The thesis is "1,25-Dihydroxyvitamin D3 and Brystatin Synergize to Induce Monocytic Differentiation in NB4 Cells." The adviser is Prof. Kelly Meckling-Gill.

The final examination of PhD candidate Ali Naemi, Rural Planning and Development, is Feb. 15 at 1 p.m. in OVC 1713. The thesis is "The Political Economy of Sustainable Industrial Transformation, Led by Small-Scale Manufacturing Based on an Analysis of a Non-Industrial Economy: A Case Study from Tajikistan." The adviser is Prof. John FitzGibbon.

TEACHING SUPPORT

Teaching Support Services (TSS) offers hands-on training in learning technologies specifically designed for instructors, TAs and instructional support staff. Sessions slated for February are "WebCT Advanced Series: Session 1—The Grade Book" Feb. 6, "HTML II: Creating a Course Web Site" Feb. 11 and "Teaching With PowerPoint: Strategies" Feb. 14. Full descriptions of all workshops can be found on the TSS Web site at www.tss.uoguelph.ca. Online registration is required for all sessions.

WORKSHOPS

Computing and Communications Services is offering a number of workshops for faculty and staff this winter through Human Resources. Upcoming sessions include "Maximizing Your Use of Windows" Feb.

12, "WinMarks" Feb. 13 and "Maximizing Your Use of Windows" Feb. 15. Detailed descriptions and registration information are available in the "Development Opportunities 2002" booklet or on the Web at www.uoguelph.ca/ccs. The Web site also lists a number of workshops offered specifically for students.

COMMUNITY EVENTS

Guelph-Wellington Women in Crisis is hosting a fund-raising auction and dinner March 16 at 5 p.m. at Guelph Place. The evening will feature a live and silent auction, draws, a buffet dinner and musical entertainment. Admission is \$25. Call 836-1110 for tickets and information or to donate items for the auction.

The Wellington Society for the Countryside launches its 2002 lecture series Feb. 12 with agroforestry specialist Todd Leuty discussing "Wildcrafting and Forest Farming" at 7:30 p.m. in Landscape Architecture 125. Everyone is welcome.

The Guelph Food Bank has joined the Ontario Association of Food Banks, RadioShack and Petro-Canada in Think Food, an innovative program to benefit food banks and the environment. For the program, schools, offices and the public are being encouraged to throw their used inkjet cartridges into a drop box rather than the garbage. The cartridges will be picked up and sent to the manufacturing industry, with the Food Bank being remunerated for every cartridge. To sign up as a collection site, call 1-888-271-3641 or visit the Web site www.thinkfood.com. Public drop-off locations are also set up at local RadioShacks.

The AIDS Committee of Guelph and Wellington County presents *The Vagina Monologues* Feb. 16 at 8 p.m. at the River Run Centre. For tickets, call 763-3000.

Guelph Civic Museum presents "Once Upon a Time . . . Knights, Castles and Common Folk" until March 31. On Feb. 3 from 1 to 4 p.m., the museum presents "Medieval Day," featuring music, demonstrations and medieval fare. Admission is \$5 for adults, \$4 for students and seniors and \$12 for families.

The Guelph Historical Society meets Feb. 5 at 7:30 p.m. at St. George's Church. Guest speaker Ken Seiling will discuss the new courthouse.

McCrae House hosts a Valentine's tea Feb. 13 at 2 p.m. To reserve a table, call 836-1221.

Wellington County Museum and Archives will hold a Heritage Day Multicultural Festival Feb. 17 from noon to 4 p.m. Admission is free. Opening Feb. 2 at the museum is the exhibit "A Love of Nature: Artifacts From the Museum's Collection."

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Happy Birthday, Linc!

Chancellor Lincoln Alexander proudly wears the new U of G leather jacket he was presented with Jan. 29 when the University community celebrated his 80th birthday. With Alexander is Scottish piper Ashleigh Weeden, who led the chancellor to the festivities. She is the daughter of Jim Weeden, president of the University of Guelph Alumni Association. See story on page 2.

PHOTO BY MARTIN SCHWALBE

Guelph to Offer One of Canada's Largest Doctoral Awards

Brock Scholarship will help attract outstanding scholars

UOF G'S ONGOING efforts to attract the most talented students have received a major boost with the creation of one of the largest doctoral scholarships in Canada.

The Brock Scholarship, valued at up to \$120,000, will be awarded to extraordinary candidates for graduate studies at the doctoral level beginning this fall. It will cover all educational and living expenses for three years of study, with a possible extension for a fourth year. Award winners will be outstanding in their field of studies, their research work and their ability to serve as mentors and leaders to other students in doctoral programs.

The scholarships will be funded from an endowment of \$1 million, donated by Bill and Anne Brock. Bill Brock is a 1958 graduate of OAC and

an active University volunteer. He served as chair of Board of Governors from 1991 to 1995 and continues to serve as chair of the board of the Heritage Trust.

He has also served the University of Guelph in numerous other volunteer roles, including as a member of Senate, director of the OAC Alumni Association, chair of the OAC Advisory Committee and deputy chair of the University's last capital campaign.

Brock says that he and his wife created this scholarship "to help the University be recognized worldwide as a leading research-focused university and to attract brilliant scholars, not only to carry out their graduate studies and research, but also to encourage them to become

Continued on page 5

CFI Awards \$18M to U of G Research

Funding will support six projects across campus

UOF G RECEIVED more than \$18 million — its largest-ever allocation — from the Canada Foundation for Innovation (CFI) Jan. 30. The funding will support six projects involving more than 200 researchers across campus, including a \$27-million, state-of-the-art animal/human health research centre.

"We are, of course, delighted to receive such a substantial investment from CFI, and it is a magnificent tribute to the excellence of our faculty, staff and students," says president Mordechai Rozanski.

"U of G conducts more health-related research than any other Canadian university without a medical school, and we strive to advance discoveries in the plant and animal life sciences that lead to new technologies and improve the quality of life. These awards will help us leverage our important pure and applied research to create and transfer new knowledge that fosters understanding and transforms discovery into value."

Guelph was among 69 Canadian universities, colleges, hospitals and

non-profit agencies that received more than \$779 million in CFI funding last month.

"Receiving a New Opportunities grant is absolutely amazing," says Prof. Jim Petrik, Biomedical Sciences. "It will provide me and other new research faculty with the unique opportunity to begin our research programs with state-of-the-art infrastructure."

Fellow recipient and colleague Prof. Roger Moorehead adds: "It will allow us to recruit and retain the next generation of Canadian researchers."

Guelph's projects fall under CFI's Innovation Fund, which enables institutions to strengthen their research infrastructure in all disciplines, and the New Opportunities Fund, which is intended help universities attract and retain high-calibre talent. In addition to CFI funding, the projects are supported by the research institutions and private, public- and voluntary-sector partners.

"To date, when CFI awards are coupled with contributions from

Continued on page 10

Renowned Scientists, Author to Receive Honorary Degrees

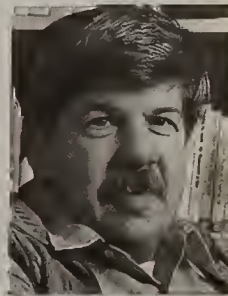
More than 600 degrees, diplomas to be awarded at winter convocation



Barry Callaghan



William Costerton



Stephen Jay Gould

RENOWNED U.S. scientist Stephen Jay Gould, author Barry Callaghan and biologist William Costerton will receive honorary degrees at winter convocation Feb. 20 and 21. Three ceremonies will be held in War Memorial Hall, with close to 630 students receiving degrees and diplomas.

In addition, two retired professors — Doug Killam of the School of Literatures and Performance Studies in English and Peter Martini of the Department of Land Resource Sci-

ence — will be granted University professor emeritus status. And the John Bell Award will be presented to Prof. Ron Stoltz, Landscape Architecture. Named for the late classics professor John Bell, who taught at Guelph from 1972 to 1987, the award recognizes outstanding contributions to teaching at U of G.

Costerton, associate dean of research of the College of Engineering at Montana State University, will receive an honorary doctorate of science and give the convocation address at the Wednesday 10 a.m.

ceremony for the College of Biological Science.

Director of Montana's Center for Biofilm Engineering, Costerton is the primary proponent of the importance of biofilm research. Biofilm, a substance that forms when bacteria adhere to surfaces in aqueous environments and begin to excrete a glue-like substance, costs billions of dollars yearly in equipment damage, product contamination and medical infections.

Costerton holds undergraduate

Continued on page 10

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University Celebration Marks Chancellor's 80th Birthday

Campus community campaign aims to support University's major goals

MUSIC, BANNERS, hundreds of red and gold balloons and a giant cake were all part of U of G's Jan. 29 celebration of chancellor Lincoln Alexander's 80th birthday.

The event, held in the University Centre courtyard, also marked the start of the University's campus community campaign — an effort to raise funds from U of G faculty, staff, students and alumni in support of the University's highest educational and capital aspirations.

Running until March 31, the campus community campaign has three main goals: to support the education of the next generation of students and maintain accessibility through expanded bursaries and scholarships; to help attract the best faculty and staff to campus; and to build new and better facilities for staff, faculty and students.

Prof. Thom Herrmann, Psychology, who is the campaign's faculty co-chair, told the several hundred people who gathered for the birthday celebration that the campaign "is about our future as a university. It's about supporting students, about attracting outstanding talent to this campus, about new facilities

to enrich our collective working environment. This is our opportunity to show the world that we believe in Guelph, that Guelph's work is important to the world."

President Mordechai Rozanski explained that the campus community campaign was being launched on the chancellor's birthday because for the past decade, Alexander has given enormously of his time, support, friendship, counsel and care to the University community.

In addition, thanks to the chancellor's dedication to the University and devotion to students, U of G has been able to establish the Lincoln Alexander Chancellor's Scholarships, designed to enhance diversity on campus. The scholarships are one of the projects the campus community campaign aims to support.

"I know the campus community shares the chancellor's vision and his determination to help students succeed," Rozanski said. "This dedication is evident in the many campaign projects being organized by groups across campus. Most are focused on increasing student bursaries and awards and improving student support resources, such as the Learning

Commons."

The president added that those leading the campus community campaign — staff member Kenda Semple, student Todd Schenk, retiree Mary Beverley-Burton and Herrmann — realize that people have varying capacities for giving.

"I therefore want to stress that what we truly value is participation — whatever the gift," said Rozanski. "All contributions, big and small, are welcome and important."

During the festivities, which featured Scottish piper Ashleigh Weeden, the U of G Chamber Singers and the Jazz Ensemble, Rozanski presented the chancellor with a U of G leather jacket before the community sang "Happy Birthday" and Alexander blew out a single candle on the nine-layer, 1,000-pound birthday cake. Created by executive chef Domenico Ranalli and chefs Joe Ranalli and Carlos Di Lello, the cake took 10 hours to put together.

"Thank you very much for the birthday wishes," Alexander told the crowd. "I am very proud to be a member of the University of Guelph community."

BY SUZANNE SOTO

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Informal Meetings to Discuss Campus Community Campaign

INFORMAL MEETINGS over coffee and muffins are being held across campus to provide information on the community campaign and answer individual questions from faculty, staff and students.

Although colleges, departments and units are being encouraged to host individual sessions, there will also be two open sessions for interested members of the campus community. They will be held Feb. 25 at noon in Room 103 of the University Centre and Feb. 28 at noon in Room 442 of the UC.

Departments that have arranged coffee and muffin sessions to date include:

- The Department of Geography, Feb. 13 at 3 p.m. in Room 234 of the Hutt Building.

- Financial Services, Human Resources and Mail Services, Feb. 15 at 9, 10 and 11 a.m. in UC 442.
- Registrar Services, Feb. 19 at 9 and 10:30 a.m. in UC 442.

- Communications and Public Affairs and the executive offices, Feb. 12 at 2:30 p.m. in UC 417.

More information on the coffee and muffin sessions — as well as on the campus community campaign — is available on the University Web site at www.uoguelph.ca/campaign/community.

If your department, college or unit would like to book an individual information session, call Stephanie Lennox at Ext. 6506 or send e-mail to campaign@uoguelph.ca.

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UNIVERSITY OF GUELPH

TOWN HALL MEETING TO DISCUSS MASTER PLAN

The Campus Master Plan Advisory Committee invites the University community to attend a town hall meeting Feb. 28 at noon in Peter Clark. This is the committee's second such meeting and will include a presentation on a working paper completed by the University's consultants. The paper is a summary of work in progress and includes an assessment of campus physical systems, a draft list of planning principles, and explorations or planning concepts that illustrate possible responses to the issues raised during the consultation process last fall. This information will be available on the Web at www.pr.uoguelph.ca/masterplan and at the library.

FINAL UW TALLY TOPS GOAL

The United Way 2001 campus campaign collected a total of \$267,540 to support local charities, says campus co-chair Prof. Bev Kay, Land Resource Science. "Givings exceeded our goal by a whopping nine per cent. Thanks to everyone for helping to make the fundraising drive so successful."

McGIBBON REMEMBERED

Former U of G chancellor Pauline McGibbon was remembered at a memorial service Jan. 31 at the Arboretum. McGibbon, who served U of G from 1977 to 1983, died Dec. 14 at age 91. Offering tributes to the former Ontario lieutenant-governor were president Mordechai Rozanski; former academic vice-president Howard Clark; Ken Murray, former chair of Board of Governors; former College of Arts dean Murdo MacKinnon; and student senator Kendra Holliday.

TALKS TO FOCUS ON EDUCATIONAL TECHNOLOGY

Teaching Support Services, the Office of Open Learning and McGraw-Hill Ryerson are hosting an educational technology conference Feb. 22 and 23 in the Thornbrough Building. The theme is "Student Success: Learning With Technology." For more information, visit the Web site www.open.uoguelph.ca/edtech.

WINTER BREAK SET

This year's winter semester break runs Feb. 18 to 22. Classes will resume Feb. 25.

OLDTIMERS HOCKEY TOURNEY FEB. 21 AND 22 ON CAMPUS

U of G will host the 25th annual University Oldtimers Faculty and Staff Hockey Tournament Feb. 21 and 22. The tournament will also feature teams from Lakehead, York, McGill, Wilfrid Laurier and Waterloo. Thursday's games run from 8:30 a.m. to 2:30 p.m. in the gold rink. Friday's games are in the red rink, beginning at 9 a.m. and wrapping up with the final at 2 p.m. For more information, call Prof. Rich Moccia at Ext. 6216.

Queen of the Furrow Is Ambassador for Agriculture

OAC student spreads the word about the importance of farming



Melanie Babcock is the latest in a long line of U of G students who have worn the Queen of the Furrow crown. PHOTO BY MARTIN SCHWALBE

A QUEEN'S LIFE isn't all smiling and waving to crowds along a parade route, at least not for the winner of Ontario's annual Queen of the Furrow competition. Candidates for the crown can plow a 12-inch furrow to an even depth of six inches in sod or stubble. They can speak with authority on the diversity of Ontario agriculture. And they can help motivate 1,000 people to work free for three or four years.

That's how long it takes to plan and host the annual International Plowing Match (IPM), the agricultural showcase where a Queen of the Furrow is crowned each September. Plowing is an important part of the competition, says this year's winner, B.Sc.(Agr.) student Melanie Babcock.

"You're judged on your furrow depth, width and evenness and whether the plow goes into the ground and comes out at the same point," she says.

Babcock is the latest in a long line of furrow queens who have attended U of G — seven in the last 10 years alone. The Ontario Plowmen's Association (OPA) started the queen competition in 1960, but has been hosting competitive plowing matches in Ontario since 1911 and boasts more than 50 local groups across the province. Local winners compete at the IPM, where a national winner is chosen to represent Canada in the world plowing event. Next year, the OPA will host the world event at the Elora Research Station.

Hosted in a different county each year, the IPM has grown into a farm and rural expo that also attracts large numbers of urban dwellers. For the Queen of the Furrow, it's an opportunity to be an ambassador for agriculture.

"The Queen of the Furrow shouldn't be somebody just wearing

a crown and a sash who is put on a pedestal," says Babcock. "It should be somebody involved in the industry. I've always had an interest in agriculture, and I think it's something important to be proud of."

Babcock learned to drive a tractor on her family's hobby farm at Harrowsmith, north of Kingston. She grew up amid cows, horses, pigs and chickens and was always involved in 4-H and the local Jersey club.

"The Queen of the Furrow shouldn't be somebody just wearing a crown and a sash who is put on a pedestal. It should be somebody involved in the industry."

Now she's dedicated to correcting the misconceptions many people have about farmers and farming.

"Agriculture is important," she says. "There are fewer and fewer farmers producing food for more and more people. People think farm animals are destroying the environment, that all bovines with horns must be bulls, that farmers chop off their chickens' beaks. It's not true. People with knowledge of agriculture or an interest have to correct these misconceptions."

Babcock's commitment to educating people about agriculture won her the Frontenac County Queen of the Furrow title. She then went on to the provincial competition, against some 30 other county queens, at last September's IPM.

At the match, she delivered a speech about the farming myths that urban dwellers believe. Then, as one of five finalists at the crowning ban-

quet, she was asked to give an impromptu response to the question: "Should farmers embrace the use of genetically modified (GM) organisms in the future?"

Yes, she says.

"Every other industry is advancing technologically, and to compete with the times, agriculture has to do so as well. For most people, it's a moral or ethical concern. GM organisms are going to be tested before they get to market, before they get to consumers, to ensure they are safe."

During her year as queen, Babcock is spending part of her time furthering the work of her predecessors in developing educational materials for school classrooms.

"It's a never-ending cycle of misinformation unless you can get to the schools and correct it at a very basic level, where people are willing and able to absorb it," she says.

"Farmers are the people who make the food you're going to eat. Without them, we couldn't survive. I hate it when I'm at a fair and I hear a parent telling a child the wrong thing, saying a brown dairy cow is a beef cow, for example."

Babcock also has a three-year biology degree from Queen's University. She's not sure what her future holds after Guelph, but a career in the dairy industry is a definite possibility.

She will spend the rest of this year promoting the Ontario Plowmen's Association and the next IPM, which will be held in Middlesex County near Glencoe. The many fairs, parades and conventions she attends as queen are also chances for her to network, make career contacts and deepen friendships.

"It's a great opportunity, and I've already met a lot of people. I get a \$2,400 scholarship and a car to drive for a year, so that's a pretty good deal."

PEOPLE

RIDGETOWN COLLEGE VET EARNS PROVINCIAL KUDOS

Ridgetown College veterinarian Irene Moore, a graduate of both OAC and OVC, has been named the 2001/02 recipient of the Ontario Association of Veterinary Technicians' (OAVT) Appreciation Award. The award is presented to a veterinarian in the animal health community who has demonstrated outstanding support and has contributed to the increased awareness of the veterinary technician's role in that community.

EIDLIN INVITED TO JOIN TEAM CANADA TRADE MISSION

Prof. Fred Eidlin, Political Science, is participating in the Team Canada Trade Mission to Russia Feb. 13 to 16. Led by Prime Minister Jean Chrétien, the mission also includes several federal ministers, provincial premiers and several hundred business people. Eidlin was invited to participate in his role as director of InterUniversity Centre Canada, a private corporation active in study abroad, international development and business support and training related to the U.S.S.R. successor states and Eastern Europe. While in Moscow, Eidlin will sign five Inter-University agreements.

APPOINTMENTS

Emmanuelle Arnaud of McMaster University has been appointed assistant professor in the Department of Land Resource Science, effective May 1.

Prof. Iain Campbell will serve as acting chair of the Department of Physics from March 1, 2002, to Aug. 31, 2003.

Kristine Grimsrud of Pullman, Wash., will join the Department of Agricultural Economics and Business as an assistant professor July 1.

Kim Kozolanka joined the School of Fine Art and Music in a half-time position as assistant professor Jan. 1.

Robert McLaughlin joined the Department of Zoology as an assistant professor Feb. 1.

Baozhong Meng of Cornell University has been appointed assistant professor in the Department of Microbiology, effective April 1.

Joanne O'Meara of McMaster University will join the Department of Physics as an assistant professor June 1.

Kathryn Preuss of North Carolina State University will join the Department of Chemistry and Biochemistry as an assistant professor Sept. 1.

Dai Skuse joined the School of Fine Art and Music as a half-time assistant professor Jan. 1.

MEMORIAM

John DeJonge, a retired staff member in Housekeeping, died Feb. 6 at the age of 72. He was employed at the University as a custodian from 1965 to 1988. He is survived by a sister, a brother and nieces and nephews.

OAC Dean Launches International Advisory Council

Group members will help college with strategic planning and development

NEW OAC DEAN Craig Pearson is making good on his promise to "set big goals in short time frames" for the college. He has started by forming an international advisory council that will help the college with strategic planning and development.

"This is a truly impressive group of individuals," said president Mordechai Rozanski, who announced the membership of the OAC Advisory Council during a dinner hosted by the OAC Alumni Foundation Feb. 6. "They bring together a wealth of expertise that is international in scope and that promises an exciting and challenging exchange of ideas and advice."

Pearson said the council will play a crucial role in boosting the college's global presence and will help take OAC's record of "courageous and visionary" leadership to the next level.

"I am conscious that I am trying to add value to an already top-class enterprise. But I aim for OAC to be the best of the best, and this requires us to set audacious goals, to raise the bar. This council will allow us to do just that, to develop strategies, monitor our performance and find new and innovative ways to serve our learners and our regional and global communities."

Pearson, who took over the leadership of OAC in December, was a chief scientist with the federal Department of Agriculture, Fisheries and Forestry in Australia. Prior to that, he was pro vice-chancellor of the Gattin campus of the University of Queensland and executive dean of its faculty of natural resources, agriculture and veterinary science.

"I pride myself on being a good listener," he told the audience of OAC alumni and agri-food business

leaders at the dinner. "The great strength of the OAC network is our ability to listen. This international advisory council is the first step in terms of listening and internationalizing OAC."

"We will put energy into internationalization and into developing a comprehensive and seamless business, which involves the Guelph campus, the regional college campuses and our research stations throughout Ontario. This will give us the potential to be the best in the world. My thesis is that institutions of truly international stature bring the most benefit to their local communities in terms of the people and resources they attract and convey."

Pearson said OAC will have three priorities under his leadership: fostering safe, secure food and water;

improving the well-being of rural and regional communities; and improving the environment. The structure of the OAC Advisory Council reflects those commitments, he says.

He defines OAC's "core" businesses as teaching, research and innovation and has ideas for enhancing them all.

Teaching will see "exciting changes" in the next five years, including self-accessed learning, increased use of case studies and learning on the job in the agri-food industry, he said.

Pearson plans to build on the Guelph campus and regional college structure to further develop an Ontario-wide learning network offering courses taught in both English and French.

Work is also under way to red-

fine the bachelor of agricultural science degree, based on community input, with the launch of the revamped program set for fall 2003. "It will become an elite degree that's hard to get into and harder to graduate from," he said.

A three-year bachelor of technology degree is also in the works, as is revisiting the location of OAC's diploma programs to remain internationally competitive.

On the research front, Pearson believes that teamwork and interdisciplinarity will carry the day. "Some of the most exciting breakthroughs are on the edges between disciplines," he says.

The enhanced partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs is the "key to research," he said, and he looks for-

ward "to an even more creative partnership in the future — how to make it better, how to manage it better."

Specific research infrastructure initiatives include enhancement of the plant agriculture building "to make one of the best centres in the world — a first-class, state-of-the-art facility."

Innovation is what OAC will continue to be judged on, said Pearson. "We have some of the best people in the world, but ultimately they gather at OAC because they want to make a difference to society."

To further enhance innovation, he anticipates increasing OAC's formal links with the "best universities" in the world. He also proposes, and asks for support in, launching an annual OAC international forum that will bring together people from diverse backgrounds — faculty, staff and students — to share information and ideas.

Pearson is clear that the many ideas he has for OAC are subject to input and support from faculty, staff, students, alumni and stakeholders from across the University and Ontario. This spring, he expects to conclude a process of input from all these groups that will result in a 2002 plan for the college province-wide.

"Craig has the vision, ideas and leadership skills to help advance the University of Guelph's ambition to be 'best of class' worldwide," said Rozanski. "He is already putting his bold vision for OAC into action and he has my full support. Most important, Craig has been focused on getting the vision right, creating a shared vision with faculty, staff, alumni and government and industry friends, which will lead to collective success."

Sweden's Former PM to Chair Council

OAC'S INTERNATIONAL ADVISORY COUNCIL will be chaired by Ola Ullsten, a former prime minister of Sweden who received an honorary doctorate from Guelph in 1999. Ullsten was Sweden's ambassador to Canada and Italy and is the current chair of the Working Group on Global Deforestation Trends. Other members are:

- Bill Bodenhamer, president and owner of Toxin Alert Inc., which is now partnered with the University.
- John Marshall Bryden, professor and chair of human geography at the University of Aberdeen in Scotland.
- Jason Clark, president of Clark Enterprises, Canada's leading poultry firm.
- Peter Connell, president and founding director of the Kemptville College Foundation and former deputy minister of Agriculture and Agri-Food Canada.
- Ron Doering, president of the Canadian Food Inspection Agency.
- Elizabeth Dowdeswell, former executive director of

the United Nations Environment Program.

- Mary Lou Garr, chair of AgCare.
- Peter Hannam, president of First Line Seeds of Guelph and a President's Council member.
- Ginty Jocius, president of the Jocius Group, a marketing and communication company, chair of the OAC Alumni Foundation and incoming chair of the Agricultural Research Institute of Ontario.
- Jim Krushelniski, president and CEO of H.J. Heinz Company of Canada.
- Tony Leung, president and owner of Sanwa Growers Inc. in Florida, the largest U.S. produce supplier to the Asian food industry.
- Ken Monteith, director of the Ridgeway College Alumni Foundation and a former MP.
- Denis Perreault, founder of the Alfred College Foundation.
- Moura Quayle, president of the Confederation of Canadian Faculties of Agriculture and Veterinary Medicine.
- Mary Smiley, chair of the Rural Economic Development Panel.

Chemists Search for Key to Cancer Puzzle

New research approach, facilities will focus on use of carbohydrate-based drugs to combat cancerous tumours

CARBOHYDRATES are central to a novel research approach — and new U of G facilities — designed to beat cancer.

Prof. France-Isabelle Auzanneau, Chemistry and Biochemistry, is establishing a carbohydrate research centre for modelling, creating and testing carbohydrate-based drugs to combat cancerous tumours.

"The fundamental goal of this research is to help cure cancer," says Auzanneau. "And the new facilities are key to reaching that goal."

Auzanneau's strategy is to create carbohydrate-based therapeutic vac-

cines that will trigger recognition of cancerous cells by the immune system and help destroy them.

U of G's new carbohydrate research centre, which has received major support from the Canada Foundation for Innovation and the Ontario Innovation Trust, will consist of a computer modelling facility that will be used to design the carbohydrate-based drugs, an organic chemistry facility to synthesize them and a biochemical testing facility to pit the antibodies produced by the immune response against their tumour cell targets.

Auzanneau and her research team are looking at three-dimensional structures called carbohydrate epitopes, which are found on cell surfaces. These structures play a role in a variety of functions, including immune responses.

Epitopes also occur on tumour cells, and Auzanneau hopes to use them to stimulate the immune system to produce tumour-specific antibodies. These antibodies should then be able to identify and attach to specific regions of the cancer cells, thus marking them for further de-

struction by the immune system.

She likens the epitope-antibody relationship to a lock and key. "If we know what the key looks like and we're able to copy or mimic the key, which in this case is the epitope, then we have a good chance of opening the lock."

Another major difference between Auzanneau's research strategy and traditional cancer research is the use of computer-based modelling techniques, which are a relatively new technology. The traditional technique of three-dimensional epi-

tope identification involves X-ray technology. But computer modelling can take into account the dynamic nature of these molecules and can process changes to the model quickly and easily.

Auzanneau is optimistic about her approach to cancer, but she's realistic about the idea of a universal cure. "There isn't one answer to cancer — this is just one approach," she says.

She believes that combinations of cancer therapies will continue to set the standard for cancer treatment.

Other researchers involved in this project include graduate students Ari Asnani and Ben Liao and undergraduates Chad Mader, Angela McDermid and Michael Moore.

This research is also sponsored by the Natural Sciences and Engineering Research Council, the Research Corporation and Aventis Pasteur Ltd.

BY MURRAY TONG
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Valerie Poulton

Brock Scholarship Will Help Draw Most Talented Students

Continued from page 1



President Mordechai Rozanski, centre, thanks Bill and Anne Brock for their endowment of a new doctoral scholarship that will be one of the largest in Canada. PHOTO BY MARTIN SCHWALBE

part of tomorrow's faculty. The University of Guelph has built an outstanding reputation, and we hope this scholarship will help build on this excellent base."

President Mordechai Rozanski thanks the Brocks for their faith in Guelph's research and teaching prowess.

"Bill has been a tireless and highly effective supporter of this

university since his own student days," says Rozanski. "He knows better than most that our vision is a bold one: to be a global resource in a world that is changing faster and growing smaller every day. To succeed, we need to attract and retain world-class faculty and talented students. This tremendous gift will help us do just that. The search begins immediately."

Graduates studies dean Isobel Heathcote says she is "very excited" about the new scholarship.

"It will be the University of Guelph's — and one of Canada's — largest and most prestigious awards for graduate studies, and will help us attract the best and brightest students, so that we can continue to generate outstanding talent for the world."

New Committee to Focus on Information Services

Group will be charged with making decisions related to use of information technology

U OF G IS ORGANIZING its first-ever campus-wide consultative committee for recommending policy and strategic directions regarding the use of information services.

Why should you care? Because, says Michael Ridley, chief librarian and committee co-chair, it affects everyone and everything at U of G.

"Although we've been very successful in specific projects, there has never really been an official vision of what we can do with the technology on this campus," he says. "As a result, there's been a lot of duplication. We need a campus plan that knits everything together in a seamless way, a plan of how we can use that technology to help us do what we do here — teach, research and learn."

The creation of the Information Services Committee comes out of recommendations from the Information Technology Governance Task Group, which reported to provost Alastair Summerlee last semester. The group will be co-chaired by Ron Elmslie, director of Computing and Communications Services, and will report to Summerlee. It will include students and representatives from each college's information technology services and other University units such as Teaching Support Services and the Office of Open Learning.

"The critically important component of this new committee will be the clear link with college-based IT committees and the connection with strategic directions in the colleges," says Summerlee. "This is an important development to ensure consultative governance pro-

cesses in the development and implementation of IT strategy."

The group will be charged with making all decisions related to the use of information technology, ranging from how it's applied to major software and hardware acquisitions.

"We are bringing together people who understand the technology and can make decisions on how to make it effective," Ridley says.

He adds that the committee will function more as a facilitating or planning group than as an arbitrator of the creation, ownership or specific content of different information services. "That will remain the responsibility of individual University units."

Other committee objectives include:

- co-ordinating issues related to information services, such as financial planning, resource allocation and community benefits;
- developing new policies and reviewing existing policies;
- evaluating existing and emerging information services to facilitate innovation, assess community benefits and promote best practices; and
- maintaining an awareness of user needs.

The group plans to meet monthly and will be developing a Web site to help facilitate communication, says Elmslie. The Web site should be available in a few weeks and will be located at www.isc.uoguelph.ca.

Applications Rise, Guelph-Humber Exceeds Targets

More than 1,100 apply for Guelph-Humber programs

APPPLICATIONS to the University of Guelph are up nearly 24 per cent this year, with the number of secondary students making Guelph their first choice increasing by more than 15 per cent, according to figures released last week by the Ontario Universities' Application Centre (OUAC).

The February "snapshot" of applications to universities across Ontario includes students seeking admission to the new University of Guelph-Humber. These figures show that more than 1,100 students have applied to Guelph-Humber, which will be accepting 200 students this fall into its three initial programs in business, computing and media studies.

System-wide, applications to Ontario universities increased by nearly 20 per cent, OUAC figures show.

"We are very pleased that so many qualified secondary students are interested in enrolling at Guelph," says Prof. Maureen Mancuso, associate vice-president (academic) and chair of the Enrolment Co-ordinating Committee. "This is a tribute to our outstanding programs, faculty, students and staff."

Prof. Michael Nightingale, vice-provost (academic) for Guelph-Humber, adds that he is "delighted" with the application numbers. "It has exceeded our expectations. The first class at the University of Guelph-Humber will be one of highly qualified and motivated students, which is very fitting for this innovative and collaborative endeavour."

Guelph-Humber is offering students the unique opportunity to earn a fully integrated university honours degree and a college diploma in only four years of study. The university is located in Toronto at Humber's north campus, where a new building will open in fall 2003 and additional program offerings will be added, including early childhood studies, gerontology, family and community social services, and justice studies and police foundations.

"The application numbers show that secondary students are very interested in Guelph-Humber," says David Trick, vice-provost (administration). "They also send a clear message that we are on target for expanding our offerings in 2003 and eventually enrolling 2,000 students."

CCL Archives Find Home in Library

THE ARCHIVAL RECORDS for CCL: *Canadian Children's Literature*, which recently celebrated its 100th issue and its 25th year of publication at Guelph, will soon be available for research and viewing in the reading room of the U of G Library's archival and special collections section.

Canada's pre-eminent bilingual journal of criticism and review in children's literature, CCL deals with published Canadian books and other media for children and adolescents, with the goal of serving the needs of teachers, librarians and academics.

This deposit of CCL records will strengthen the existing relationship between the library and CCL, says Lorne Bruce, head of archival and special collections. Currently, the library provides online indexing for issues from 1975 to 2000 prepared by Linda Day of the library. The searchable index is available on the Web at <http://libnt1.lib.uoguelph.ca/canchildlit/index>.

CCL was founded in the College of Arts in 1975 by faculty members John Sorfield, Elizabeth Waterston, Mary Rubio and Glenys Stow. They were joined in 1982 by Prof. François Paré, Languages and Literatures, who helped turn CCL into a bilingual periodical.

For 25 years, CCL has offered a serious scholarly forum for criticism

of Canadian children's literature and theatre. A hundred issues have presented articles, profiles, interviews, in-depth reviews and thematic issues on a variety of vital topics, such as censorship, says Bruce.

Now, the journal's archival records, currently located in the MacKinnon Building with Gay Christofides as administrator, will also be available. This is an important step in tracing the record of an essential Canadian journal and its editorial content and contributors, he says.

The addition of CCL complements the library's existing collections of children's and young adults' materials, which include L.M. Montgomery, All About Us/Nous Autres and holdings in children's theatre collections.

"It also underlines the value of collaboration between the library and researchers in the College of Arts," Bruce says.

He notes that three of CCL's current editors, Prof. Daniel Chouinard, director of the School of Languages and Literatures; Rubio, co-editor of *The Selected Journals of L.M. Montgomery*; and Marie Davis, editor of the special CCL issue "Children of the Shoah: Holocaust Literature and Education," are active contributors to children's literature.

DOWN WITH UPTALK

"Has it become impolite to speak assertively in Canadian society?"

BY HANK DAVIS

I ATTENDED an international conference this past summer, and one of the British hosts sidled up to me during a Canadian presentation. He leaned over and whispered, asking about the presenter: "What's wrong with her? Do all Canadians talk like that? It sounds like all she's doing is asking questions."

I felt both saddened and vindicated. For years, I've been getting on my students for this needless vocal tic that devalues what they have to say. I want them to sound professional, not only in content but also in style. Most of them are battling .500. They do their homework, but when it comes time to speak out loud, they revert to uptalk.

It's become an epidemic.

Talk to a teenager and you're almost guaranteed to hear it, although the problem is more prevalent among young women. And now it's spreading from the kids to their parents. It's getting so we don't even notice uptalk anymore.

I hear it from other university professors (especially the young ones), high school teachers, students, secretaries, receptionists, telephone operators — adults who never talked that way before have become prime agents of the virus.

Uptalk is the inability to utter a declarative sentence without curling up your voice at the end to signify a question. Do you understand me? Are you still listening to me? Can I go on?

Declarative sentences have gone through some kind of politically correct meat grinder and have been turned into questions. I can easily remember when Canadians, even young ones, just stated their business — including simple things like their names — without curling their voices into a desperate plea for approval and understanding.

When I tell my students about this vocal habit, they often react as if they are hearing about it for the first time. Within days, they tell me: "I see what you mean. It's everywhere. I can't believe how much my friends and I do it."

Granted, uptalk is a lot harder to take when it's used continually and indiscriminately. Like any verbal tic, it becomes all the more grating when every sentence (even individual phrases within a sentence), is turned into a question. You might think uptalk would be reserved for difficult concepts, but it isn't.

What has happened to simply stating your piece? Has it become impolite to speak assertively in Canadian society? Every day, I hear the simplest statements turned into interrogatives.



My name is Jennifer? I live in Guelph? I'm here to fix your washer?

They've all become questions. But what is at issue here? One's name? The location of one's home? One's job? Why can't those things be stated politely but firmly? Has tentativeness become the hallmark of polite discourse in Canada? Is it rude to sound confident? Must we seek consensus at every syllable with vocal inflections that say: I'm not sure about any of this. I can take it back at a moment's notice if it displeases you.

Not all of my colleagues agree with me. Mind you, there is little debate about the spread of uptalk or — as is the case with cigarette smoking — that young women are its biggest practitioners. The debate surrounds why people uptalk or whether

they uptalk for a single reason. Perhaps they don't, but I think there's enough of a pattern to offer a working theory.

It's been suggested to me that uptalk is a direct descendant of Valley Girl talk. The thing is, Valley Girl talk never really caught on in the States. Its tentative, unsure nature never really fit the American psyche. So it moved north in search of different values. And what did it find? It found a culture known for politeness. A place where: "If you have nothing nice to say, say nothing" is printed on restaurant placemats and embroidered on our souls.

Here in Canada, uptalk found a home.

Let me tell you about an unusually honest conversation I recently had with a student. I asked her about the use of uptalk and other interrogatives she strategically placed at the end of her statements. She paused reflectively and said: "I'll tell you exactly why I do it. I do it to tone down what I say. I don't want to come across too assertively. I'm afraid people won't like me or some of the things I say. I don't want to alienate my friends or the kids in class. This way, I can take the stuff I say back if people around me seem uncomfortable."

And there you have it. An admittedly small sample, but an insight from the lips of an actual practitioner.

So now we have at least one working theory on the table: Uptalk suspends a statement in some kind of social limbo until you get approval. No feathers ruffled. No friends lost. No opinions. No harm done.

When my British host wondered aloud about this non-assertive Canadian style of speech, should I have replied that we Canadians are so consumed with politeness and consensus-seeking that we can no longer state anything without checking in several times a sentence to make sure we haven't offended anyone?

I think we need to take a step back and listen to ourselves. Let's at least call attention to how we sound. Uptalk was barely present 10 years ago. Now it's threatening to infect all of us like some sort of conversational anthrax.

Understandably, Canada wants a distinctive cultural identity, but, please, not this! There are many things that make me proud to be a Canadian. Uptalk is not one of them.

Prof. Hank Davis is a faculty member in the Department of Psychology. This article originally appeared in the *Globe and Mail*.

Microscope to Provide Real-Life Look at Cells

Botanist leads team of researchers who will use the device for variety of projects across campus

U OF G SCIENTISTS hope to get a more intimate real-life look at the inner workings of cells and tissues after a new state-of-the-art microscope worth almost \$400,000 arrives at Guelph next month.

The new instrument will give investigators across three colleges a more powerful tool for learning about cellular parts and processes. Initially to be installed in the Department of Botany, the new \$392,000 device will eventually become part of a suite of microscopy and imaging tools planned for the University's new science complex.

"The instrument allows researchers to examine cells and dynamic processes," says Prof. Robert Mullen, Botany. Unlike electron microscopes, which permit users to study only dead tissue, this confocal laser scanning microscope uses laser light to produce two- and three-dimensional images of live tissue.

Mullen led a team of Guelph researchers in a funding application in late 2000 to the Natural Sciences and Engineering Research Council (NSERC). The council will provide \$250,000 through a major equipment grant. The balance will be paid for through the budgets of four College of Biological Science departments — Botany, Zoology, Microbiology and Molecular Biology and Genetics — as well as funding from the CBS dean's office, OVC's Department of Biomedical Sciences and the Food System Biotechnology Centre.

Some 30 Guelph faculty from those and other departments are expected to use the device regularly in a variety of research projects. It will replace an older microscope to be retained for teaching purposes.

Scheduled to arrive in March, the microscope will be ready for use by early April, says Mullen. It will be in-

stalled in an imaging and microscopy centre in the botany wing of the Axelrod Building. Eventually, the equipment will be housed in specially designed quarters within the planned science building, along with scanning transmission electron microscopes and related equipment currently in the NSERC/Guelph Regional STEM facility in the Department of Microbiology.

Yukari Uetake, who recently completed post-doctoral work in botany at U of G, will return this spring from Japan as a research technician to run the equipment.

Writing the NSERC funding application was one of the first priorities for Mullen when he arrived at the University in 2000. "This is probably my primary instrument," he says.

As a plant biologist, he plans to use the microscope to observe how proteins move around and work in-

side plant cells. He says his basic research might eventually help applied scientists in, say, biotechnology companies manipulate genes and proteins to make seedlings germinate and grow more rapidly or efficiently.

Studying proteins used in certain cellular structures might also help medical researchers learn more about how defects in those structures can cause human diseases such as Zellweger's syndrome, a metabolic disorder.

"How an organelle is formed in a plant is not that different from how an organelle is formed in an animal," Mullen says.

Prof. Terry Beveridge, Microbiology, plans to use the new instrument to learn more about bacterial attachment and growth on various surfaces.

"This microscope will allow us to take 'optical slices' through the

biofilm without disturbing its viability, so as to understand the microenvironments that surround each bacterial cell and are so important for growth," he says.

Although an electron microscope provides higher resolution to distinguish between cellular components, the beam of electrons kills whatever the user is examining. This confocal instrument will allow scientists to study dynamic processes in living tissues and cells. And it will allow users to zero in on various layers and organelles within a cell in a more precise way than a conventional light microscope could.

Imagine looking through an unopened deck of cards for one particular card, says Mullen. "A laser microscope filters out all the other light from the deck except the one card you're interested in."

BY ANDREW VOWLES

TRUTH AT ALL TIMES

*U of G staff member stays close to his roots and strives
to teach others about native culture and traditions*

BY SUZANNE SOTO

*Within the shelter of black yews
The owls in ranks are ranged apart
Like foreign gods, whose eyeballs dart red fire.
They meditate and muse.*

*Their attitude instructs the sage,
Content with what is near at hand,
To shun all motion, strife and rage.*

*Men, crazed with shadows that they chase,
Bear, as a punishment, the brand
Of having wished to change their place.*

From *The Owls* by Charles Baudelaire

NATIVE CULTURES have always valued animals, regarding them with great respect. Individual animals have also been used as "totems" or spirit guides and to represent family groups or clans.

"They are our teachers, and what we learn from them is what makes us who we are," says Micheal Mandeville, a Métis of Saulteaux and French descent recently elected to represent staff on U of G's Board of Governors for a three-year term. He says that both his totem and his own native name — Gookookoo'oo — pay homage to the owl, a bird associated with hidden knowledge, insight, wisdom and truthfulness.

"Truth is very important to us," he says. "We must be truthful at all times."

A reminder of both truth and fairness — and one Mandeville keeps close at hand — is his "medicine bundle." It's an assortment of "sacred medicines" — sweet grass, sage, tobacco, cedar — along with an owl feather, all stored in a thin, rectangular wooden box. Mandeville often carries the box into important campus meetings and gatherings, including B of G meetings.

"I see my Board of Governors appointment as a very honourable and respectful post," he explains. "I take the box to the meetings because its contents provide me with guidance and keep me focused."

A Physical Resources building mechanic charged with ensuring heating, water and ventilation systems at various campus buildings remain in top order, Mandeville has been with the University for a year and a half. During that time, he has accomplished quite a bit. But he's not stopping there — he has many dreams for the campus, the main one being heightening awareness of native issues, as well as creating and improving services for native students, faculty and staff.

Born and raised in Connaught, a small community about 30 kilometres northeast of Timmins, Mandeville is the 17th child of a Saulteaux mother and a Métis father whose ancestors first settled in Quebec in 1534. His upbringing, he says, was very strict and spiritually based, with both his parents enforcing Catholic beliefs and traditions.

While young, he was also cared for by an "adopted grandmother," an elderly native woman who educated him about Ojibwa spirituality and traditions. "She taught me to respect all aspects of life. Both she and my mother also shared stories with me and encouraged me to share them with others. I learned a lot from them."

Mandeville attended school in Timmins until 1969, when his family moved to Gaspé, Que. They returned to Ontario less



than a year later and settled in Kirkland Lake, where Mandeville completed Grade 10. In the fall of 1972, he joined the Canadian Army.

"Because I had spent quite a bit of time in the bush growing up, I was a very good shot, so I was assigned to the sniper division," he says. "I left after three years because the army was just not my cup of tea. Being a designated professional killer was against all of my beliefs."

*"Many more things can be done and must be done
to attract aboriginal students, faculty and staff
to the University of Guelph."*

He went back to Timmins and back to school, where he earned his Grade 12 equivalency diploma before training to be a millwright. He secured work with a couple of mining companies and remained in Timmins until 1981, when he relocated to Yellowknife with his wife and their four children (two from his first marriage and two from hers). In Yellowknife, he worked at a local hospital and studied stationary engineering. After completing that course, he became a maintenance person and power generation station operator for the North Warning System or DEW line, as it is commonly known.

During their 20 years in Yellowknife, Mandeville and his wife raised their children and saw them start their own families — the couple now has seven grandchildren. He also took an active role in native issues and in educating people about those issues. He became president of the Métis local, a role that saw him

interacting with politicians at all levels.

"I've met Prime Minister Jean Chrétien — I spoke with him in French when he came to Yellowknife in 1997. I also took part in the Western Premiers Conference in 1998. I am not saying these things to be boastful, but rather, to show that while I might be quiet and soft-spoken, very much like my father was, I am not afraid of standing up and of speaking up."

After nearly two decades in Yellowknife, when the initial plan was to be there only five years, Mandeville and his wife returned to Ontario in 1999, settling back in Timmins.

"I have a sister in Cambridge, and she talked me into checking things out in this area," he says. "At around that time, the position at U of G opened up and I was hired. My first day was Aug. 14, 2000."

During his relatively short time on campus, Mandeville says he's had many opportunities to teach others about native culture and traditions. Every month or so, he writes a column for the student newspaper *The Ontarian* on aboriginal issues. He's also been a volunteer with the campus radio station, CFRU-FM.

"I often meet native people who have lost their culture," he says. "I try to educate them, just like I've educated my own siblings. My own brothers and sisters didn't care to learn about our culture, like I did, from my mother and adopted grandmother. When we were growing up, if you could hide the fact you were native, you would! But I've taught them all, and now they're all proud of their traditional ancestry."

In 2001, when the B of G elections came around, Mandeville decided to run because he saw the post as another chance to heighten awareness of native issues.

"U of G has strived to attract the best students out there," he notes. "There are some very smart and talented aboriginal students who could come here, but the University has to make more of an effort to accommodate them better."

As an example, he cites the tour he received when he first started working on campus. He says one of the University's residences had a "Welcome Students" sign featuring a dozen different languages — none of them First Nations languages.

Something that would go a long way in attracting more aboriginal students to campus would be the establishment of a campus centre for aboriginal students, faculty and staff, he says. "The native community on campus, though small, needs a place for spiritual gatherings."

Mandeville adds, however, that he is very much encouraged by the recent establishment of the Lincoln Alexander Chancellor's Scholarships. To be offered for the first time in fall 2002, these scholarships are intended to enhance student diversity at U of G. As such, they will recognize students of academic distinction who are aboriginal, persons with a disability or members of a racial minority and who have made significant contributions to their schools and communities and demonstrated the potential to become leaders in society.

"Establishing these scholarships is probably one of the best moves the University has made," says Mandeville. "The scholarships will be a legacy for many years to come. But let's not stop there. Many more things can be done and must be done to attract aboriginal students, faculty and staff to the University of Guelph."

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The Day No One Can Forget

OVC grad recalls personal memories of Ground Zero rescue workers

NEW YORKERS end every conversation with a comment about Sept. 11.

"You still feel it," says Oded Marcovici, a 1994 graduate of OVC, who ends our telephone conversation by telling me how he feels fortunate to have been able to help rescuers in the aftermath of the attack on the World Trade Centre. His veterinary skills were needed to care for rescue dogs searching through the burning rubble of the twin towers.

Marcovici reported to Ground Zero Sept. 12 and joined a volunteer team of veterinarians and veterinary technicians who worked there every night for almost two weeks, washing the dogs' eyes and feet, treating abrasions and cuts and giving the animals fluids. Their trainers received similar care from a medical team.

Each morning as he walked out of Ground Zero, Marcovici passed thousands of people lining up to donate blood and standing on corners with donations of food, socks and sweaters.

"Everybody wanted to do something," he says, even if it was only a phone call to provide emotional support. "I think everybody I know has called," he adds, including Guelph friends Melody Wren, a staff member at U of G, and Prof. Jeff Thomason, Biomedical Sciences, who suggested the campus commu-

nity would like to hear about the New York experience of an OVC alumnus.

"It's not something you really want to talk about," says Marcovici, but he remembers a moment when his mind flashed back to an OVC public affairs class more than 10 years ago. The professor mentioned the valuable role vets can play in dis-

aster and war-like emergencies — even performing the duties of medical doctors and surgeons, if necessary.

"That's sort of what it felt like — being part of something huge and unfathomable," he says. "I'm just grateful there was something I could do to help the rescue teams."

The dogs and handlers came from police, fire and FBI detachments all over the United States, but there were also rescue dogs from around the world, including many owned by individuals who wanted to contribute to the effort. Marcovici especially remembers dogs sent by the French army and a dog named Pork Chop that came with its owner from a small town in California. The town's citizens raised \$10,000 in a

four-hour radio blitz to send Pork Chop to Ground Zero.

"I have never seen stronger human/animal bonds than between the searchers and dogs," he adds. "Labs, shepherds, pointers and lots of mutts — all trained to find victims and bodies. It was a tremendous honour to work with those animals and the rescue teams."

"I have never seen stronger human/animal bonds than between the searchers and dogs. It was a tremendous honour to work with those animals and the rescue teams."

Some dogs worked 48 hours without a break in the first desperate attempts to find survivors, says Marcovici, but after Sept. 11, they found only bodies and body parts in the twin tower ruins. "Only 10 per cent of the victims have been found."

The dogs worked for many weeks after the collapse, walking over sharp objects and hot rubble, he says. Protective boots would not have allowed them enough traction to manoeuvre through the debris, so their handlers would carry them in and out of the site to protect their feet as much as possible.

Marcovici normally works for the New York elite. His veterinary practice on the upper west side of Manhattan caters to the family pets of celebrities and wealthy business peo-

ple. But he's equally familiar with other parts of the city and veterinary clinics not quite so posh.

His career actually began in Detroit, where he worked for a corporate group that owned several small-animal practices. He moved to New York in 1996 and has done everything from working in animal shelters and mobile veterinary units

as a student who made everybody participate. "He was the main social whirl of the year, tremendous fun to have in a class and somebody who really wanted to be a vet."

The challenges Marcovici has faced as a New York City veterinarian may not be exactly what he imagined during his student days.

"There was one course in vet school where we studied five things we knew we would never have to worry about in a small-animal practice: foot and mouth disease, mad cow disease, West Nile virus, smallpox and anthrax. But in the last 10 years, we've had West Nile virus and anthrax in my city, and the rest have been very real concerns."

His city is New York. He was a frequent visitor even when living in Toronto with his family or studying at Guelph.

"I've always loved New York," he says. "I used to drive down for weekends to see a show or visit friends. It just felt right. It feels like home."

But for a few days last September, home felt like a war zone, with an army of volunteers doing the unimaginable to support rescue workers.

"The school gyms were filled with donations; every restaurant sent food to Ground Zero. Keeping busy helped to deal with it. Sept. 11 changed my life forever, just like everyone else in New York."

BY MARY DICKIESON

On the Road to Marketing Friendlier Fuel

Kemptville College researchers investigate the feasibility of making biodiesel a household word in Canada within the next few years

RECYCLED RESTAURANT grease that doubles as organic engine fuel isn't at the pumps just yet, but the drive toward putting this kind of biodiesel on the Canadian market has stakeholders revved up in anticipation.

Kemptville College professors Dean Donaldson, a specialist in rural economic development, and Allen Hills, an engineer, are on a mission to investigate the feasibility of mak-

ing biodiesel a household word in Canada within the next few years. They're discussing marketing strategies with the various stakeholders involved to form a common goal of incorporating blends of biodiesel with regular diesel fuel, to lessen the harmful effects of diesel on the environment.

"So far, we've seen a lot of positive acceptance," says Donaldson. "Consumers are very supportive of

the concept of using a renewable source."

And with recent reports that Toronto Hydro plans to fuel its entire fleet of vehicles with a biodiesel blend this year, it appears that support exists to take biodiesel to the next level: marketing.

Biodiesel — a clean-burning fuel that is organically produced from renewable resources such as recycled restaurant fat and soybean or vegetable oils — is thought to be one answer to environmental problems. But it has only recently surfaced in Ontario as a realistic alternative to diesel fuel.

Donaldson's research focuses on working with stakeholders to identify the barriers to marketing the fuel and examining the potential choices that will fuel a commitment to manufacturing and selling the biodegradable, non-toxic fuel.

Although pure biodiesel can be used in regular diesel engines, Donaldson says it can't wholly replace diesel fuel just yet because of its limited production and supply. He and Hills are looking at the feasibility of scenarios involving blended fuels — containing biodiesel in quantities from two to 20 per cent — which still offer significant environmental benefits and acceptable engine performance, even in colder climates.

Donaldson says success at marketing a blended fuel containing just two-per-cent biodiesel would require a 25-per-cent increase in soybean production. That's more than 600,000 acres.

And a major obstacle in marketing biodiesel is finding someone to distribute it, he says. Convincing the petroleum industry to market a competing product isn't an easy task, especially without government en-

forcement and with so little concrete information widely available.

Although U.S. research boasts that the renewable resource benefits the environment by reducing air pollution and greenhouse gases — and it's been proven safe on engines — Canadian investors would like to see researchers do more testing in their own climate before they make any commitments.

For now, Donaldson and Hills are doing their best to bring the ideas and expertise of various stakeholders together. They will focus on arranging meetings with farm groups, potential investors and officials in Ottawa to continue to identify the barriers and solutions that will lead to developing a plan that will put biodiesel to more widespread use.

"There are a lot of people who are making a commitment to a cleaner environment, and biodiesel's a great way to make that happen," says Hills. "Interest in biodiesel in Ontario has really recurred just recently. It's gone from 'nobody was interested' to 'nobody can keep up.'"

This research has been sponsored by the Ontario Soybean Growers, the University's Hannam Soybean Utilization Fund and the directors' funding program at Kemptville College.

BY LISA CAINES
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All Aboard!

Aberfoyle Junction's display model railway is a train lover's paradise



Prof. Wayne Pfeiffer and his fellow railway enthusiasts have handcrafted this miniature city complete with a busy train station and switching yard.
PHOTO BY MARTIN SCHWALBE

ASK PROF. Wayne Pfeiffer, Agricultural Economics and Business, to explain his lifelong passion for trains and he tracks it all the way back to a defining moment as a four-year-old in Nebraska in 1949.

He recalls how the family farm lay within view of two busy railway branch lines. One day not long after his father had helped him assemble his first-ever train set, Pfeiffer watched an engineer leave an idling locomotive on the siding and cross the field toward their farmhouse. It turned out the man had recognized Wayne's father from their service during the First World War.

For the younger, the shining moment came when the engineer reached into a pocket, pulled out a silver dollar and pressed the coin into his small hand.

Years later, Pfeiffer is still playing out the dream of many a youngster who grew up during the 1950s, as a member of Aberfoyle Junction, a self-styled Group of Six whose life-long love for the Iron Horse coalesced more than two decades ago into the ultimate model train layout.

A "miniature railway museum" or a "display model railway" is what he calls the sprawling waist-to-eye-level display in an unassuming steel building in Aberfoyle that draws about 3,000 visitors a year, mostly from southern Ontario.

Inside the front entrance is a collection of railroad memorabilia, including a long-handled hammer donated by a former Canadian Pacific executive that was used to drive in the ceremonial last spike during construction of Toronto's Union Station in the 1930s. Playing on an overhead TV monitor is a video of the display that the group produced last summer.

Step through another doorway and you've entered a train lover's paradise.

Erected on a waist-high frame running around three sides of the 3,500-square-foot room, the display

represents southern Ontario from farms to the outcroppings of the Niagara Escarpment to a Lilliputian-sized city complete with a busy train station and switching yard.

The display is meant to represent the late 1950s, a key turning point in railroad history as the era of steam gave way to another. "Steam and diesel were both on the rails together in those days," says Pfeiffer.

He and the other Aberfoyle Junction members have handcrafted a miniature environment over the years, just as they have collected or built the display's miniature trains that travel amid the scenery, wait at stations and go about railway operations in the switching yards and roundhouses.

Modelled after real-life behemoths, mostly owned by CP and Canadian National railways, the collection comprises more than 50 locomotives, 200 freight cars, 60 passenger coaches and about two dozen cabooses. All the trains are modelled to "O" gauge or 1/48 life size. (Most home hobbyists collect "HO" gauge models, only half the size of those on display at Aberfoyle.)

The steam locomotives in the display were hand-made from plans obtained from the railroad companies. "We get the exact drawings that the companies used to build the real locomotives," says fellow Aberfoyle Junction member Chuck Bard, adding that all of the passenger coaches are also built from scratch.

The oldest real-life locomotive modelled in their display was a steam engine built by CP in 1885. The oldest model itself, constructed in 1971, is patterned after the Royal Hudson locomotive, which headed the train that King George and Queen Elizabeth used to tour Canada in 1939.

None of the Aberfoyle Junction crew ever rode the rails for a living. Frank Dubery, who worked at Ontario Hydro's Bruce Nuclear Generating Station, and his wife, Gay, began building the original display in 1972 in a barn at the Aberfoyle

Antique Market. Bard, a retired electrician, joined them with his wife, Gwen, a graphic artist. Her creations include the display's scenic backdrop and several paintings in OVC's Small-Animal Clinic. Craig Webb, a retired schoolteacher from Hamilton, is a railway historian with special expertise in passenger operations.

Running the display involves all four men at the controls in an elevated platform above the display. One crowd-pleaser is their choreographed night scene, including two minutes when the only light in the room comes from hundreds of tiny bulbs on the display and the illuminated windows of passing trains.

Word of Aberfoyle Junction has spread widely among model railroaders and collectors — a growing fraternity, according to Pfeiffer. Twice while travelling on trains overseas, he has struck up conversations with seatmates who have not only turned out to be avid modellers but who, unprompted, also mentioned a must-see if ever in Canada: the Aberfoyle Junction Model Railway.

"We had a regular from Texas who would fly his Lear jet into Kitchener-Waterloo Airport to attend our shows," Pfeiffer adds.

His own preferred mode of transportation is still the train, even during numerous overseas trips for international development projects that have taken him across six continents in his nearly 30 years at Guelph.

Aberfoyle Junction runs spring and fall shows that Pfeiffer says appeal not just to diehard fans but also to ordinary visitors looking for the nostalgia and romance of a bygone era, as well as a growing number of young families. The first show in 2002 will take place May 4 and 5 and May 11 and 12. Groups can also book a visit. For information, call Ext. 3667 or 823-2312.

BY ANDREW VOWLES

LETTERS

'IT OUGHT NOT TO BE TAUGHT IN SCHOOL'

We are grateful to Profs. Brian Husband and Elizabeth Boulding (@Guelph Jan. 17) for their comments on our letter of Dec. 12. Some of their points require more detailed response than this forum will support, so we restrict our discussion to a comment on the definition of evolution and further explanation of the distinction between natural selection and evolution.

Profs. Husband and Boulding, in agreement with the National Academy of Sciences (*Teaching About Evolution and the Nature of Science*, National Academy Press, Washington, D.C.) define evolution as "any hereditary change." Given this definition, we would agree that natural selection is at least one means to effect evolution. But "any genetic change" is quite different than the claim that life evolved from simple molecules or that a fish was transformed into Albert Einstein. If evolution really means the transformation of simple molecules to living organisms, then important distinctions between natural selection and evolution emerge.

First, natural selection is a conservative process that acts to preserve existing genomes, but does not generate any new information. It may also preserve genes beneficially altered by mutation, but even in that case, it acts conservatively rather than creatively, whereas the evolution of life requires the development of complex genetic blueprints. Second, natural selection is abundantly verified by empirical evidence, and its principles are well understood and applied in artificial selection, whereas the macro processes described for evolution are still speculative.

Many scientists (including some renowned biologists such as Steven Jay Gould and Francis Crick) are skeptical that the conservative process of natural selection plus the destructive process of random mutation can explain the transformation of a primordial soup to bumblebees. Here we include only the now-famous quote (as cited in

Philip E. Johnson's 1991 book *Darwin on Trial*) from a 1981 lecture by Colin Paterson, senior paleontologist at the British Natural History Museum: "Can you tell me anything you know about evolution, any one thing... that is true? I tried that question on the geology staff at the Field Museum of Natural History, and the only answer I got was silence. I tried it on the members of the Evolutionary Morphology Seminar in the University of Chicago, a very prestigious body of evolutionists, and all I got was silence for a long time, and eventually one person said: 'I do know one thing—it ought not to be taught in high school.'"

We disagree. Evolution should be taught in school, but it ought to be taught as a theory, clearly outlining its scientific and philosophical weaknesses as well as its strengths.

Prof. Art Hill, Food Science
Prof. Bonnie Mallard,
Pathobiology

DISUNITY OF BUILDING MATERIALS ON CAMPUS IS UNINSPIRING

I was pleased to see that "quality and/or unity of materials," including materials for structural elements in buildings, was identified as a leading concern in the campus master plan consultations (@Guelph, Jan. 30).

Over the years, I have been truly inspired on many university campuses because of the unity of structural materials, from the "modified collegiate gothic" buildings at the University of Western Ontario, seen first as a young teenager 60 years ago, to the uniformly beautiful buff-coloured sandstone buildings of Stanford I saw last year. As John Keats wrote: "A thing of beauty is a joy forever."

In contrast, as I now walk on this campus to the Richards Building, as I have since it opened in 1958, I see such a disunity of materials in the new abutting Thornbrough Building extension that I'm upset that people will have to look, even if not forever, at such an uninspiring, unpleasant view for years to come.

Ken King, Professor Emeritus
Land Resource Science

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Proposed Institute Will Be Unique in Canada

Continued from page 1

other funding partners, Guelph has received more than \$100 million," says Prof. Alan Wildeman, vice-president (research). "These successes are having a major impact on the research fabric of this entire university."

The six Guelph projects will support research in food safety, chemistry, biodiversity science, breast cancer, reproductive disorders, and animal and human health.

"I am overjoyed," says Prof. John Leatherland, chair of the Department of Biomedical Sciences and project leader for the proposed Institute for Animal/Human Links in Health Science Research. "The CFI funding will allow us to establish a facility that will be unique in all of Canada."

The project involves some 40 researchers at OVC, all of whom will benefit from having additional resources on hand for their research, as well as scholars from other Guelph departments and collaborators in Quebec, Leatherland says.

The institute will include two research laboratory complexes, a surgical-diagnostic research lab linked to an MRI facility and specialized animal-holding facilities.

"It will allow veterinarians to apply their research to advancing human health and human-health research," he says.

CFI is funding \$11 million of the estimated \$27-million project, making it Guelph's largest-ever single project CFI award.

Other Guelph projects that received approval are:

From CFI's Innovation Fund:

- Up to \$4,919,054 to establish the Biodiversity Institute of Ontario, which will develop innovative research programs in biodiversity science. Project head is Prof. Paul Hebert, Zoology.

- Up to \$1,624,924 to support the next phase of development of the Canadian Research Institute for Food Safety (CRIFS), including renovations and improvements, to make Guelph the premier centre in Canada for research in this area. This project is headed by Prof. Mansel Griffiths, Food Science.

Hebert says his CFI project involves more than 30 researchers from Guelph and the Huntsman Marine Sciences Centre in St. Andrews.

"This institute is being established at a time when life on our planet is confronting a crisis," he says. "These new research capabilities will enable the University to take a leadership role in a field that is being revolutionized by the application of DNA-based technologies and digital media."

Griffiths's grant will allow researchers to build on the infrastructure put in place by an earlier CFI award to CRIFS.

"This new award is recognition of the efforts of many people who are committed to a multidisciplinary approach to solving the complex issues surrounding the production, processing, retailing and preparation of safe food," he says.

"It's anticipated that as a direct result of the research this grant will support, there will be a significant decline in the level of food-borne illness in Canada in the years to come."

Guelph also received from CFI's New Opportunities Fund:

- Up to \$238,777 to help develop biosensor technology and methodologies that will benefit the biotechnology and pharmaceutical industries. Project head is Prof. Abdelaziz Houmam, Chemistry and Biochemistry.

- Up to \$159,017 for equipment to facilitate research that could significantly reduce the incidence of

reproductive disorders in women and agricultural animals. Petrik will lead this project.

- Up to \$127,656 for equipment to investigate genetic and protein alterations that induce breast cancer. Moorehead is project head.

Petrik is studying factors that control normal ovarian follicular development and function and those involved in reproductive disorders.

"Based on the information we generate from these studies, therapies may be designed to reduce or potentially eliminate the occurrence of these fertility problems," he says.

Moorehead is researching normal mammary and lung development and events leading to tumour formation.

"Using mice that have been genetically altered to overexpress proteins linked to human breast and lung cancer, we are investigating how specific proteins promote the development of tumours."

Houmam will use his grant for equipment to support his work on

understanding the electron transfer processes in organic and bio-organic molecules.

"It will complement the existing equipment at the new Electrochemical Technology Centre in the Department of Chemistry and Biochemistry," he says, "and will also have an impact on graduate training in our department."

The CFI is an independent, not-for-profit corporation established by the federal government in 1997 to address an urgent need of Canada's research community: new, state-of-the-art research infrastructure. The Jan. 30 announcement brings the total CFI investment in research infrastructure at Canadian universities and research institutions since August 1998 to more than \$1.55 billion. When this is coupled with contributions from other funding partners, the resulting total is close to \$3.9 billion in capital investment to help strengthen the research environment in Canadian institutions.

BY LORI BONA HUNT

Retired Faculty, Landscape Architect to Be Honoured

Continued from page 1

and graduate degrees from the University of British Columbia.

While on campus, he will also give a talk on "Biomimicry in Nature and Disease" Feb. 21 at 10:30 a.m. in Room 113 of the MacNaughton Building as part of the Department of Microbiology seminar series.

Gould, a zoology professor at Harvard University, will receive an honorary doctor of science degree and address graduands at the Wednesday 2:30 p.m. ceremony for the College of Social and Applied Human Sciences.

One of America's pre-eminent scientists, he is best known for shaping crucial debates on the theory of evolution and the interpretation of fossil evidence. The author of 20 books and hundreds of essays, reviews and articles, he is one of the most popular and well-known writers and lecturers on scientific topics and is known as one of Harvard's most visible and engaging educators.

Gould, who also serves as president of the American Association for the Advancement of Science and is a member of numerous other scientific societies and organizations, says his paramount challenge is to

"make people less scared of science so they won't see it as arcane, monolithic and distant but as something important in their lives."

He holds a bachelor's degree from Antioch College and a doctorate from Columbia University.

Following convocation, Gould will give a public talk at 5 p.m. in Room 113 of the MacNaughton Building.

Callaghan, an English professor at York University, will receive an honorary doctorate of letters and address graduands Thursday at the 10 a.m. ceremony for the College of Arts, the College of Physical and Engineering Science and the Faculty of Environmental Sciences.

The author of nine books, Callaghan has been a figure of major stature in the English-Canadian literary culture as a writer, critic, journalist and cultural commentator. His writings have won him several awards and have appeared in French, Spanish, Italian, Serbian and Croatian translations.

He earned his undergraduate and graduate degrees from the State University of New York and has also worked at an editor, publisher and translator.

Killam will be named University professor emeritus during the same ceremony. A graduate of the University of British Columbia and London University, he was already known internationally for his pioneering work in the field of African literature when he joined the English faculty as chair of the department in 1977. He served as chair until 1988 and retired last year.

Editor of *The Oxford Companion to African Literatures*, Killam is also the author of 10 books, 22 book chapters and 19 journal articles.

At Thursday's 2:30 p.m. ceremony for the Ontario Agricultural College and the Ontario Veterinary College, Martini will be named University professor emeritus and Stoltz will be honoured with the John Bell Award and will give the convocation address.

Martini, who joined U of G in 1973, is recognized internationally for his research in sedimentology and quaternary geology. He is best known for his groundbreaking work in the James Bay Lowlands that led to his research on the generation of cold-climate coals. The author of five books, seven field guides, eight book chapters and numerous articles and other publications, he has also taught in universities around the world.

Stoltz, a 1999 recipient of a prestigious 3M Teaching Fellowship, joined U of G in 1975. He was director of Teaching Support Services from 1992 to 1997 and also served a stint as acting director of the Centre for International Programs. During both appointments, he continued teaching at least half time in the School of Landscape Architecture.

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
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Two-bedroom, two-storey semi-detached home in Fergus, available April 1, non-smoker, no pets, \$980 a month inclusive, 843-6536.

One-bedroom basement apartment in south end, suitable for female, private entrance, near bus route, parking, laundry, non-smokers, no pets, available March 1, \$750 a month inclusive, references, first and last months' rent, 823-9161.

Three-bedroom home in north end on half-acre lot, suitable for working couple or small family, fireplace, rec room, laundry, workshop, available March 1, \$1,200 a month plus utilities, leave message at 831-5135.

Furnished three-bedroom townhouse on College Avenue for quiet students or family, three baths, finished basement, available May to September 2002, \$1,200 a month plus utilities, pets welcome, 763-5115 or ruthic007@hotmail.com.

Three-bedroom townhouse to sublet, three baths, appliances, parking, on bus route, close to campus and Stone Road Mall, available March 1 to Dec. 31, \$1,189 a month inclusive, 767-9793.

Furnished bachelor apartment in Normandie, France, sleeps two or three, parking, \$700 for three weeks from April to October and \$600 a month from November to March, 763-8806.

Room in condo complex in northwest area, available March 1, \$400 a month inclusive, Violet, leave message at 824-4491.

Two bedrooms in house, on bus route, laundry, dishwasher, no pets, available April 1, 821-8351.

Furnished two-bedroom holiday home in Antibes, France, weekly or monthly; furnished one-bedroom apartment in southwest Paris, Nicole, 836-6745 or fmmoll@webtv.net.

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Queen-sized sofa bed and chair, electric bed, green chesterfield, metal bed, occasional chairs, Marlene, Ext. 6552 or 823-2116.

Carl Zeiss/Jena research microscope, fully loaded, automatic 35-mm photo attachment, dual demonstration tube with pointer, recently serviced, excellent condition, Ext. 4918.

Five-piece place setting for eight of Royal Doulton "Sarabande," plus teapot and oval vegetable bowl, 766-4969.

Fifteen-inch colour monitor, computer keyboard and speakers; crib, playpen, high chair and booster seat, excellent condition, send e-mail to amwillia@uoguelph.ca.

Laptop IBM Thinkpad 760XD, 3.2GB hard drive, 48MB RAM, 13.3-inch screen, internal CD-ROM, network card, built-in modem,

Windows 98SE, Office 2000, excellent condition, 826-5337 after 2 p.m.

NEC Versa LX laptop computer, Pentium II-366, DVD, LS120, 128MB, 6GB, 14.1TFT, 1.44FD, USB, touchpad, send e-mail to curtis@vccs.biz.

Sofa and loveseat, green flowers; rosewood coffee, sofa and two end tables; two matching green lamps, excellent condition, 763-1759 evenings.

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Two- or three-bedroom house or apartment, needed immediately until August or September, 824-6759 or mackinnoncindy@hotmail.com.

Used opaque projector in good condition, Kimberly, Ext. 3144 or kmckayfi@uoguelph.ca.

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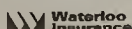
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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue Feb. 17 with "Quest for Nests." It leaves from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays until April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

"The Art and Practice of Pruning" is the focus of a half-day workshop led by horticulturist Henry Kock, offered March 5, 6 and 7 from 1 to 4 p.m. Cost is \$25. Registration and payment are required by Feb. 26. Kock will also lead a workshop on hobby grafting March 8 from 1 to 4 p.m. Cost is \$28. Registration and payment deadline is Feb. 22.

Larry Drew presents the workshop "Signs, Tracks and Finds" March 9 from 1 to 4 p.m. Cost is \$18 for adults, \$9 for children or \$40 for a family. Registration and payment are required by Feb. 28.

Naturalist Chris Earley will lead a workshop on ducks March 13 from 9 a.m. to 4 p.m. A morning field trip is planned for April 6. Cost is \$65. Registration and payment are required by Feb. 27.

ATHLETICS

The men's hockey Gryphons are at home to York Feb. 16 at 7:30 p.m.

Windsor comes to Guelph Feb. 20 to take on the basketball Gryphons, with the women's team playing at 6 p.m. and the men's at 8 p.m. Wilfrid Laurier is on campus Feb. 23, with the women's game at noon and the men's at 2 p.m.

The women's ice hockey Gryphons take on York in an OUA quarter-final Feb. 20 at 7 p.m. Guelph will also host the 2002 OUA championships Feb. 23 and 24. The semi-finals run Feb. 23 at 4 and 7 p.m., with the championship game slated for Feb. 24 at 7 p.m. The Bronze Medal game will precede it at 4 p.m.

COLLOQUIUM

The Rural Studies Colloquium presents Prof. David Douglas, Rural Planning and Development, discussing "The Process and Practice of Rural Local Economic Development: The Ontario Case" March 1 at 2 p.m. in Landscape Architecture 125.

CONCERTS

The Thursday noon-hour concert series continues Feb. 14 with Hari Pal performing tabla rhythms and Feb. 28 with the Recorder Ensemble presenting Renaissance music. The concerts are in MacKinnon 107. Admission is free, but donations are appreciated.

FORUM

The School of Languages and Literatures Forum presents Italian studies professor Roberta Iannacito discussing "Progressive Assimilation in the Dialects of Molise" Feb. 28 at 4 p.m. in the University Club.

LECTURES

The lecture series sponsored by the Centre for Families, Work and Well-Being on "The Challenge of Work/Life Integration in Canada" wraps up March 1 with Prof. Kerry Daly, Family Relations and Applied Nutrition, discussing "Care and the Clock." There will also be a panel presentation on "Meeting Employee Needs" with Mary Ann Beaudin of the College of Nurses of Ontario, Patti Coates of Mohawk College and Charlotte Logan of Homewood Behavioural Health. The session runs from 11 a.m. to 2 p.m. in the lecture theatre at the Homewood Health Centre. Cost is \$60 and includes lunch. To register, call 1-800-445-1798, Ext. 113.

Third Age Learning's lecture series for retired people continues Feb. 27 with Prof. Lianxi Zhou, Consumer Studies, discussing "Rural Enterprise: Rural Industrialization in a Market Economy" at 10 a.m. and Prof. Stewart Hiltz, Land Resource Science, on "Sustaining Our Inheritance: Creative Ways Toward Land Stewardship in Rural Ontario" at 1:30 p.m. On Feb. 28, "Environmental Hazards of Community" is the topic at 10 a.m. Lectures are at the Arboretum Centre.

NOTICES

The U of G Child-Care and Learning Centre will hold a fund-raising art auction featuring the work of all the children who attend the centre Feb. 17 at the Bookshelf. A silent auction runs from 3 to 5 p.m., featuring music and milk and cookies. Cost is \$5. At 7 p.m., silent and live auctions will be held, featuring music and appetizers. Cost is \$10. For tickets, call Ext. 2682.

The Stress Management and High Performance Clinic will offer a program on managing headaches, beginning Feb. 25. The four-session program meets Monday nights from 7:30 to 9 p.m. in UC 390. Cost is \$20 for U of G students, \$60 for others. For more information, pick up a brochure at the UC Info Desk, leave a message at Ext. 2662 or visit the Web site www.uoguelph.ca/~kso-mers.

The International Development Research Centre offers the John G. Bene Fellowship in Community Forestry for graduate students. Application deadline is March 1. For details, visit the Web site www.idrc.ca/awards/ebcinf.html.

A presentation on the International Space University will be held March 6 from 10:30 a.m. to 12:30 p.m. in

MacLachlan 101. Alain Berinstein of MARS Lead and Sandra Janosik of the Canadian Space Agency will describe the university's programs and discuss career opportunities in space science. To attend the session, RSVP by March 4 to Theresa Rondeau Vuk at Ext. 2909.

A Nutraceutical Career Connection Fair will be held Feb. 28 from 11 a.m. to 3 p.m. in the upper lobby of the Powell Building. Representatives from industries related to natural health products, functional foods and health services will be on hand to provide information about summer and permanent jobs targeted to students in CBS, OAC and the College of Social and Applied Human Sciences. For more details, visit the Web site www.uoguelph.ca/nhptc.

The Ontario Public Interest Research Group's Sustainable Agriculture Forum presents a panel discussion on "Approaching Agricultural Challenges" Feb. 26 at 7 p.m. in Peter Clark Hall. For more information, visit the Web site www.angel-fire.com/on4/sustainable.

The Canadian Federation of University Women meets Feb. 26 at 8 p.m. at the Beth Isaiiah Synagogue on Surrey Street West. Prof. Michael Grand, Psychology, will discuss "The History and Impact of the Jewish Community in Guelph."

The J. Armand Bombardier Foundation has launched a major fellowship program to finance innovative international study, research and work programs proposed by Canadian students. Candidates must hold at least one university degree. Fellowships are valued at \$10,000, and closing date for the first competition is March 1. Application information is available on the Web site www.cbic.ca under "Canadian Learners." For more information, call 613-237-4820, Ext. 246, or send e-mail to jhumphries@cbic.ca.

SEMINARS

The biochemistry series continues Feb. 14 with Prof. Richard Mosser, Molecular Biology and Genetics, exploring "Prevention of Stress-Induced Apoptosis by the Molecular Chaperone hsp70" at noon in MacNaughton 222.

Next up in the Department of Microbiology seminar series is Prof. Marc Coppolino, Chemistry and Biochemistry, examining "Requirement for N-ethylmaleimide Sensitive Factor (NSF) at Different Stages of Bacterial Invasion and Phagocytosis" Feb. 14 at 2 p.m. in OVC 1714. On Feb. 21, William Costerton of Montana State University discusses "Biofilm in Nature and Disease" at 10:30 a.m. in MacNaughton 113. On Feb. 28, Dennis Bazylinski of Iowa State University focuses on "From the Origin of Life to Mars: The Magnetotactic Bacteria Story" at 2 p.m. in OVC 1714.

"Ecophysiology of Stopover Refueling in Migratory Birds" is the topic of Chris Guglielmo of the University of Montana in the Department of Zoology seminar Feb. 15 at 3:30 p.m. in Axelrod 265A.

Next up in the Department of Pathobiology seminar series is PhD candidate Subhashinie Kariyawasam explaining "Antibody Responses to Selected Cell Surface Antigens of Avian Pathogenic *Escherichia coli*" Feb. 22 at 2 p.m. in Pathobiology 2106.

The Axelrod Institute of Ichthyology presents Shelley Arnott of the Ontario Ministry of Natural Resources in Sudbury discussing "Climate Change Research on Boreal Shield Lakes" Feb. 26 at 12:30 p.m. in Axelrod 168.

"Measuring This Particular Elegant Universe: From Top to Bottom" is the focus of Melissa Franklin of Harvard University in the Guelph-Waterloo Physics Institute's Distinguished Lecture Series Feb. 26 at 4 p.m. in MacNaughton 113.

The Department of Plant Agriculture is launching a seminar series titled "Frontiers in Plant Biology" March 4 with David Jackson of Cold Spring Harbor Laboratory discussing "Two Ways of Talking: Receptors and Channels for Intercellular Signalling in Plants" at 4 p.m. in MacKinnon 031. Jackson will also give a student talk on "Introduction to Signalling in Plant Development" at 1:30 p.m. in Crop Science 403.

TEACHING SUPPORT

Teaching Support Services (TSS) offers hands-on training in learning technologies for instructors, TAs and instructional support staff. Coming up are sessions on "Effective Courseware Design and Delivery" March 5, "WebCT Advanced Series: Session II — Quizzes" March 6, "Multimedia for Teaching" March 8 and "Teaching With PowerPoint: The Basics" March 11. Full descriptions of all workshops can be found on the Web site www.tss.uoguelph.ca. Online registration is required.

THEATRE

The Vagina Monologues will be performed Feb. 27 and 28 and March 1 at 7:30 p.m. in War Memorial Hall to raise money for Women in Crisis. Ten per cent of the ticket costs will go to the Women in Afghanistan Fund. Tickets are \$10. For more information, send e-mail to kmcchesn@uoguelph.ca.

THESIS DEFENCES

The final examination of M.Sc. candidate Vincent Lee, Chemistry and Biochemistry, is Feb. 13 at 10 a.m. in Chemistry and Microbiology 370. The thesis is "Zwitterionic Surface Adsorption and Aggregation on Au(III) Electrode Surfaces." The

adviser is Prof. Jacek Lipkowski.

The final examination of PhD candidate Ali Naemi, Rural Planning and Development, is Feb. 15 at 1 p.m. in OVC 1713. The thesis is "The Political Economy of Sustainable Industrial Transformation, Led by Small-Scale Manufacturing Based on an Analysis of a Non-Industrial Economy: A Case Study From Tajikistan." The adviser is Prof. John FitzGibbon.

WORKSHOPS

Computing and Communications Services is offering workshops for faculty and staff this winter through Human Resources. Upcoming sessions include "Maximizing Your Use of Windows" Feb. 15, "Getting Around MS Word" Feb. 19 and 21, "Introduction to Adobe PDF" Feb. 20 and 26 and "WinMarks" Feb. 28. Detailed descriptions and registration information are available on the Web at www.uoguelph.ca/ccs.

COMMUNITY EVENTS

The Waterloo-Wellington Wildflower Society meets Feb. 13 at 7:30 p.m. in the Arboretum Centre. John Ambrose will discuss "The Erie Islands and the Search for *Camassia* (Wild Hyacinth)."

The Edward Johnson Music Foundation holds its seventh annual fund-raising wine gala and auction Feb. 23 at 6 p.m. at the Cutten Club. For tickets, call 821-7570.

Women in Crisis is offering a full-day workshop on friendship Feb. 26 for women aged 16 and up. For more information, call 836-1110, Ext. 51.

The British Methodist Episcopal Church's black history series continues Feb. 17 at 1:40 p.m. On Feb. 24, the church marks Black History Month with a celebration at 3:30 p.m. The church is located at 83 Essex St. For more information, call 763-7137 or 821-6583.

The next meeting of the Wellington County branch of the Ontario Genealogical Society is Feb. 26 at 7 p.m. at the Unitarian Church, 22 Harris St. Guest speaker Joan Rentoul will discuss bookbinding.

The Council of Canadians in Cambridge presents Paul Lucardie of the University of Groningen in the Netherlands Feb. 19 at the Cambridge Newfoundland Club. His talk on "Proportional Representative Democracies" begins at 7 p.m.

The Advanced Agricultural Leadership Program's annual Black and White Dream Auction is Feb. 23 at 6:30 p.m. in the atrium of the OMAFRA building at 1 Stone Rd. W. A complete list of auction items can be viewed on the Web at www.aalp.on.ca. For ticket information, call 826-4024.



U E L P H

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College Royal Ready to Roll

78th-annual open house runs March 16 and 17

UOF G will "Let the Good Times Royal" at its annual College Royal weekend March 16 and 17. The 78th-annual student-run open house — the largest of its kind in Canada — will run from 9 a.m. to 5 p.m. Saturday and from 10 a.m. to 4 p.m. Sunday.

Started in 1925 as a livestock-showing competition, College Royal has grown to become a perennial attraction. It now involves some 3,000 volunteers and attracts more than 25,000 visitors to campus.

This year's open house features a combination of traditional favourites such as teddy bear surgery, a "new" Old MacDonald's farm and chemistry magic shows, as well as new attractions such as a robotics competition and a "Harry Potter" planting session.

Another College Royal tradition is the annual Curtain Call musical production, with this year's company performing *Guys and Dolls* March 14 to 16 in War Memorial Hall.

The weekend will also feature numerous displays and activities by student clubs and individual departments, live surgery at the On-

tario Veterinary College, tours of the Wild Bird Clinic, Maple Syrup Days at the Arboretum, synchronized swimming performances, and dog and cat shows.

Also scheduled are a number of team events, including a tug-of-war, pie throw, egg toss, square dance competition, Gryphon Jeopardy, a logging competition and a pancake-flipping contest.

In addition, a lecture series will run hourly throughout the weekend, featuring talks on a variety of issues and subjects being studied at the University.

In conjunction with College Royal Weekend, the Fine Art Network, a student-run organization dedicated to promoting the fine arts at Guelph, will hold its 33rd annual juried art show March 15 to 17 in Zavitz Hall. The show accepts submissions from any U of G undergraduate student. The official opening is March 15 at 7 p.m. and will feature an awards ceremony followed by a reception.

A complete listing of all College Royal events and activities will soon be available on the Web at www.collegeroyal.uoguelph.ca.



Celebrating Excellence

Close to 630 degrees and diplomas were awarded during four winter convocation ceremonies Feb. 20 and 21. Above, one of U of G's newest alumni, BA graduate Adrienne Romaneh of Concord, right, celebrates her achievement with her sister, Nadia. Three members of the University community received special honours during the ceremonies. University professor emeritus status was bestowed on Doug Kilian, top right, an English professor who retired in 1995, and Peter Martini, middle right, who retired from the Department of Land Resource Science in 2001. Landscape architecture professor Ron Stoltz, bottom right, was presented with the John Beil Award for outstanding contributions to teaching.

PHOTOS BY MARTIN SCHWALBE

Some Cancer Therapies May Make Disease Worse

OVC biomedical scientist part of North American research team reporting new findings in *Science* magazine

NEW RESEARCH by Canadian and American scientists — including U of G biomedical sciences professor Brenda Coomber — reveals that some new cancer therapies have the potential to make the condition worse.

The findings appear in the Feb. 22 issue of *Science* magazine. The research was based on theories that Coomber helped develop while on a research sabbatical at Sunnybrook and Women's College Health Sciences Centre some years ago. The article was authored by Coomber, Bob Kerbel and Joanne Yu of Sunnybrook, Janusz Rak of McMaster University and Dan Hicklin of ImClone Systems Inc. in New York. Their study focused on antiangiogenic therapy, a relatively new cancer treatment that works to reduce tumours by cutting off their blood supply, and the p53 "tumour-suppressor" gene.

"It is the body's 'quality control' gene," Coomber says, noting that p53 regulates cell cycle and cell division. "In a cell that has DNA damage, p53 prevents the cell from dividing by inducing repair of the damage. Or, if the dam-

age is too great, it allows for 'cell suicide.'"

But human cancer cells often inactivate this cancer-suppressor gene, and the cells accumulate mutations.

What the researchers found is that these mutant cells appear to be less reliant on blood supply than cells with normal p53 function are. So therapies that target the blood vessels in tumours are killing off cells with active p53 genes while the mutant cells survive.

"We seem to have found a situation where the treatment may be making the disease progress faster," Coomber says.

The researchers performed a number of controlled experiments on mice. They compared the resistance of tumours that were derived from human colorectal cancer cells. The cells were genetically modified to have either normal or mutant p53 to produce three kinds of tumours: those containing cells with only normal p53, those with cells containing only inactive or mutant p53, and those containing a combination of cells with either p53 gene. Antiangiogenic therapy was used to treat all three types of tumours.

"This allowed for direct comparisons between the effects of p53 active and inactive genes, because that is the only genetic difference between the two cell types," Coomber says.

The study found that although the growth of all tumours was inhibited by the treatment, there was a "dramatic difference" in the response based on the p53 status. Tumours that had only cells with active p53 genes increased twofold in size, compared with a sevenfold increase for tumours with cells containing inactive p53 genes.

The researchers further analysed the "mixed-cells" tumours using a special dye that stains the tumours cells closest to the blood vessels a brighter colour. They then broke up the tumours and examined where the p53 mutant and p53 normal cells were located. Consistent with the findings of tumour growth, these tests found that the cells closest to the blood vessels were those with active p53 genes.

"These 'mixed tumours' started out having a cell ratio that was about 50:50 in terms of having active and inactive p53 genes," says

Coomber. "After the treatment, the ratio of wild-type p53 genes dropped to less than 25 per cent. The thinking with antiangiogenic therapy is that if you cut off the blood supply to the cell, it cannot get any oxygen and it will die. But this shows that these mutant cells are preferentially able to survive, probably because they are much less dependent on the blood supply."

Coomber notes that there are caveats, including the fact that the research was conducted in an artificial environment with modified human cancer cells. "But it does mean that we should think more about how we approach cancer treatment and that we need additional studies." She adds that the findings are not "anti-antiangiogenic."

"There is no magic bullet for treating cancer, but that doesn't mean we cannot have an arsenal of weapons, and this therapy can still be an important one. But what this research is telling us is that the system is far more complicated than we could imagine, and we cannot ignore the biology."

BY LORI BONA HUNT

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TOWARD 2010

Town Hall Meeting to Discuss Campus Master Plan Working Paper

THE CAMPUS Master Plan Steering Committee recently issued a working paper that suggests alternative means to address the issues identified in the research phase of the campus master plan review process.

Produced by du Toit Allsopp Hillier and by Lea Consultants Ltd., the consultants hired by U of G to prepare the campus master plan, the 100-page working paper contains more than two dozen explorations of how the campus may develop in the future. These explorations are based on exhaustive campus consultations that began in early 2001 with University administrators, including the Vice-President (Academic)'s Council, as well as faculty, staff and students.

"This working paper begins to address key issues through a series of planning strategies and alternative scenarios for the arrangement of buildings, roads, walkways and landscapes," the paper's introduction states. "Its intention is to explore ideas, generate discussion and obtain feedback."

A town hall meeting to review the working paper will be held Feb. 28 at noon in Peter Clark Hall. The presentation format will be casual, and all members of the U of G community are encouraged to bring lunch and participate. Staff are also reviewing the working paper with interested off-campus groups such as nearby neighbourhood associations and the City of Guelph.

The text of the working paper is available on the University Web site at www.pr.uoguelph.ca/master-plan.

The Campus Master Plan Steering Committee is asking for comments on all the explorations and ideas presented in the working paper. After this phase of consultation, the paper will be reshaped into a draft report for further review and comment, and will ultimately be brought forward as a final report for approval by Board of Governors.

CHANGES TO CLASSROOM SCHEDULING PLANNED

As U of G prepares for the double cohort years, it is already experiencing some of the scheduling challenges that arise from the need to maximize use of facilities.

The opening of the new classroom cluster in September 2003, which will add nine classrooms to campus, will bring considerable relief to the scheduling process, says Prof. Alastair Summerlee, provost and vice-president (academic). But the University is also exploring ways to enhance the efficiency and effectiveness of the scheduling process.

As part of the planning process, the Planning Steering Group has asked the Office of Registrarial Services to review classroom use and facility capacity.

"One of the problems identified for efficient scheduling is the constraint imposed by classes that have to be assigned particular rooms or time slots," Summerlee says.

Some of these constraints are justified because a room that will accommodate a particular class size may be needed or access to specialized equipment may be required, he adds. Other constraints revolve around historical use or personal preference.

Summerlee has recommended that a small committee of faculty be asked to review requests from departments for particular room and time slot assignments. Only in cases where the requirement can be justified (e.g., special equipment) will it be possible to accommodate individual needs.

"This may be difficult for some faculty and staff who have been used to expressing personal preferences for particular rooms and times," Summerlee says. "Unfortunately, the University needs flexibility in the system to maximize use of the facilities, and I am looking for support from all members of the University community in accommodating this need."

Information about scheduling for winter 2003 will be forwarded to departments from the Office of Registrarial Services shortly.

NEW FACULTY COME ON BOARD

Thanks in part to renewed faculty recruitment efforts, more than 50 new faculty have joined U of G over the past year. Beginning with this issue, @Guelph will introduce these faculty to the community under the "Toward 2010" banner. See page 4 for the first instalment.

Construction of Classroom Complex Set to Begin

CONSTRUCTION on U of G's classroom complex will begin March 1.

The project — a key component in the University's plans to accommodate the expected surge in student enrolment caused by the "double cohort" in 2003 and a projected increase in overall university participation — is expected to take 14 months to build and will be ready for classes in the fall of 2003.

Physical Resources will hold an information session on the project and its construction schedule March 5 from noon to 1:30 p.m. in Peter Clark Hall. The project's architects, Robbie/Young+Wright, will also give the community an update on the project.

Members of the campus commu-

nity are encouraged to attend this meeting, which is intended to answer questions about expected road closures and other construction activity, including site safety, noise and dust. Some of the activity already foreseen includes:

- A portion of Trent Lane from Reynolds Walk to the north side of the Bullring, and a portion of Reynolds Walk directly south of the construction site, will be closed to vehicular traffic.
- Parking lots P5 (Computing and Communications Services), P51 (behind Johnston Hall) and P52 will remain open, but as of March 1, visitor parking in P5 will be relocated to the kiosk parking in P44 by Johnston Hall.

• Barricades and signs will be installed to direct pedestrian and vehicular traffic to ensure the personal safety of members of the University community and visitors.

The 1,500-seat classroom complex is the first phase of the science and classroom complex at U of G. The University received \$51 million under the provincial SuperBuild program towards the total cost of the entire project.

@Guelph will continue to carry stories and updates on this project's construction. In addition, photos of the construction and its progress will be posted regularly on a Web site to be launched for this purpose. The site will also contain information on the project itself, floor plans, elevations and architectural renderings.

@GUELPH

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UNIVERSITY OF GUELPH

CAMPUS DAYS SET

Guelph's annual March Break Campus Days program for prospective students and their parents runs March 13 to 15. Activities will include a student panel, information and counselling sessions, resource displays and tours. Hundreds of U of G faculty, staff and students will participate in the events, which are based in the Athletics Centre. Last year, about 3,500 students and parents turned out over the three days.

ERC, OPEN LEARNING OFFER NEW ONLINE PROGRAM

The Office of Open Learning and the Equine Research Centre (ERC) are offering Canada's first online Canadian Equine Science Certificate Program. Designed for professional or personal enrichment, the program consists of six courses aimed at enhancing knowledge of the equine industry and improving horse health and performance. The courses use a variety of resources, including textbooks, CD-ROMs, videos, online conferencing and guest lectures. The first course, "Management of the Equine Environment," begins May 13. For details, visit the Web site www.EquineScienceCertificate.com or call 767-5000.

WELLNESS FAIR MARCH 19

The Wellness Centre is hosting the 10th annual Wellness Fair March 19 from 10 a.m. to 3 p.m. in the University Centre courtyard. Presenters from on and off campus will be available to provide demonstrations and answer questions related to personal health and well-being. For more information, send e-mail to wellness_fair2002@hotmail.com.

REPETITIVE STRAIN INJURY FOCUS OF PANEL DISCUSSION

The Guelph and District Labour Council and Steelworkers Local 4120 mark International Repetitive Strain Injury Awareness Day Feb. 28 with educational presentations and a panel discussion from 6:30 to 9 p.m. in Room 103 of the University Centre. Panelists include kinesiologist Richard Wells, chiropractor Matthew Corradetti, ergonomist Julianne Natale and Nancy Hutchison, health and safety coordinator for United Steelworkers of America.

ENVIRONMENTAL BIOLOGY STUDENTS HOST TALKS

Graduate students in the Department of Environmental Biology present their annual symposium March 13 from 8:30 a.m. to 4:30 p.m. in Conference Room 1 of the OMAFRA building on Stone Road. This year's theme is "Communicating for a Sustainable Future." Guest speakers are Joe Schwarcz of McGill University, who will discuss "Pesticides and Biotechnology," and Bob Murphy, senior curator at the Royal Ontario Museum, who will explain "Biodiversity in the Vietnam Forests." Everyone is welcome.

**The Puck Drops Here**

President Mordechai Rozanski drops the puck for the opening game of the 25th-annual University Invitational Faculty and Staff Hockey Tournament held Feb. 21 and 22 on campus. Facing off are Manfred Gartner of Wilfrid Laurier University, left, and Prof. Rich Moccia, Animal and Poultry Science. McGill, Lakehead, York and Waterloo universities also sent teams to the tournament, which was won by Guelph's Grey Gryphons. They beat Waterloo 4-3 in the final game.

PHOTO BY MARTIN SCHWALBE

German Studies Blooms

ASLATE of extracurricular cultural activities is injecting more life into Guelph's German studies program. The events, which include German theatre and a weekend language excursion, are initiatives of Prof. Rüdiger Mueller, Languages and Literatures.

Mueller, who earned his PhD at Queen's University, joined U of G in August 2000. One of the ideas he brought with him was for a German theatre production, an idea that struck a chord with Guelph students involved in the first show last winter.

"The number of students who are participating this year has basically doubled," he says. "They have a lot of fun with it and are doing an amazing job."

About 35 students are contributing as directors, actors, stagehands and marketers for this year's production, which takes place March 8 and 9 at 8 p.m. in Lower Massey Hall. Also involved as an actor and adviser is recently retired German studies professor Kari Grimstad.

The performance will feature selected scenes from five German, Austrian and Swiss plays: *La Ronde* by Arthur Schnitzler, *Nathan the Wise* by Gotthold E. Lessing, *Der*

zerbrochne Krug (The Broken Jug) by Heinrich von Kleist, *Mother Courage* by Bertolt Brecht and *The Visit* by Friedrich Dürrenmatt. The von Kleist segment will be performed in German; the others will be in English. Last year, the event attracted an audience of 200, and Mueller hopes that number will grow as well.

Later in March, 10 U of G students will join 10 from Wilfrid Laurier for a weekend German-language excursion to Durham County. The first-time event will "put language into a social context wherein the students can practise their German in conversation, play games, cook with German recipes and participate in workshops that are entertaining and fun," Mueller says.

A long-standing weekly "Stammtisch" get-together at the Bookshelf Café on Monday nights is another outlet for students, faculty and anyone else who wants to talk about all things German. Newly revived are international film nights, which Mueller is presenting with colleagues Prof. Stéphanie Nutting in French studies and Prof. Dorothy Odartey-Wellington in Spanish studies.

Prof. Daniel Chouinard, director of the School of Languages and Lit-

eratures, credits Mueller with helping to boost interest in German studies, which offers a minor in the BA program. German studies also benefits from the contributions of Prof. Paola Mayer, who is cross-appointed to European studies.

"Enrolment in second- and third-year courses has been going up steadily," says Chouinard. "In less than two years, we have seen the number of students registered in German studies minors go from two to 17." About 200 students are currently enrolled in German studies courses.

"The various extracurricular activities put what the students are learning into more practical, applied contexts," Mueller says. "Most of the students go on exchange, which is important today because everyone should be aware of other cultures and languages. An exchange is probably one of the most valuable things people can do during a degree at Guelph, no matter which program they're in. As long as they've acquired an appropriate skill in the language, students can take courses abroad in their major, whatever that may be."

BY STACEY CURRY GUNN

PEOPLE

GUELPH GRAD BRINGS HOME OLYMPIC GOLD IN HOCKEY

Cassie Campbell, a 1997 BA graduate of U of G, led Canada's national women's hockey team to a golden victory at the Olympics last week, beating the Americans 3-2 in the final game. Campbell, who is team captain, was named to the national team in 1994 and played in her first Olympics in 1998 when women's hockey debuted as a Winter Games event in Nagano, Japan. As an undergraduate at Guelph, she was captain of the varsity women's hockey team.

INTERNATIONALIZATION AND EDUCATION FOCUS OF TALKS

Prof. Jorge Nef, Rural Extension Studies, and Prof. Jim Shute and Lynne Mitchell of the Centre for International Programs participated in a Queen's University conference on "Connections and Complexities: Internationalization and Higher Education in Canada." Nef presented a paper with Susan James of the University of Western Ontario on "Institutional Factors in the Internationalization of Higher Education: A Critical and Interpretive Essay." Shute spoke on "The Role of Faculty in Shaping Internationalization." Shute also gave an invited presentation on "North-South University Partnerships: Trends and Issues" at York University during International Development Week.

BLA STUDENTS SWEEP PRIZES IN PROVINCIAL COMPETITION

Nine third-year landscape architecture students won all the prizes in a competition sponsored by the Aggregate Producers' Association of Ontario. The participants were asked to present ideas for rehabilitation of aggregate extraction sites. Tying for first place were Tina Fernandes and Mark Zuzinjak for their project "Navan Golf Course and Country Club" and Saya Nakano and Emily Mann for "Twin Lakes." Second prize went to Alison Bond, Mike Salisbury and Kristine White for the project "X-Treme Golf." Barbro Sollen and Jeffrey Schurek captured third prize for "The Hewitt Lake Interpretive Centre and Karrow Lake Conference Centre." The projects were done as part of a course taught last semester by Prof. Cecelia Paine.

Drama Program Celebrates Luscombe Legacy

THE COLLEGE OF ART's drama program is hosting a colloquium and celebration March 16 to honour the memory of distinguished Canadian theatre director George Luscombe. The event, "Performance and Politics: the Legacy of George Luscombe," will feature a keynote address by playwright, author and *Globe and Mail* columnist Rick Salutin.

A panel discussion will follow on "Continuing the Legacy: Performance, Politics and Passion." Prof. Alan Filewod, Literatures and Per-

formance Studies in English, will chair the panel, which features theatre artists Maja Ardal, Robin Breen, Juanita De Vos and Sandi Ross.

The colloquium will explore questions about the meaning of politics and performance today, the role of politically engaged dramatists and how theatre can speak to the changing condition of the world in a meaningful and entertaining way, Filewod says.

Luscombe was a director, producer and playwright who founded Toronto Workshop Productions,

the first theatre company in Canada committed to politically engaged ensemble performance.

After his retirement, Luscombe taught acting at U of G and was awarded an honorary doctorate of laws from Guelph in 1996 for giving Canadians an important body of theatrical innovation and for training several generations of actors, writers and directors. A video of Luscombe's convocation address will be shown at the event.

The celebration will culminate in the formal opening of the George

Luscombe Theatre in the MacKinnon Building (currently called the Inner Stage).

That evening, the drama program will stage its final performance of *The Dog Beneath the Skin*, a 1935 British play by W.H. Auden and Christopher Isherwood about the world sliding into war. Directed by Filewod, the production also features the work of the drama program's new design professor, Jerrard Smith, one of Canada's leading mask makers. The play runs March 11 to 15 at 8 p.m. and March 16 at 7 p.m.

U of G Attracts Outstanding Research, Teaching Talent

THANKS IN PART to renewed faculty recruitment efforts, more than 50 new faculty members have joined U of G over the past year. They come from as far away as Australia and as near as the city limits, their expertise encompassing everything from the relevance of literature and contemporary art to the intricacies of statistics and molecular biology. In the next few months, we will profile these new bright minds. Here are the first six.

BRIGITTE BRISSON

Assistant professor, small-animal surgery, Clinical Studies

Background: DMV, University of Montreal; D.V.Sc. (small-animal surgery), University of Guelph; diplomate of the American College of Veterinary Surgeons

Teaching objectives: To transfer to students basic surgery knowledge through teaching anatomy, pathophysiology and surgical principles because these are the backbones of good surgical practice. The most important goal is to teach my students to apply their theoretical knowledge to clinical practice in a logical manner.

Research objectives: Investigating intervertebral disc disease in dogs (recurrence of disc disease after decompressive surgery and the effects of prophylactic fenestration), as well as developing and evaluating minimally invasive surgical procedures using laparoscopy and thoracoscopy.

Attraction to U of G: The reputation of OVC among Canadian schools, as well as the high quality of the veterinary program and the large and interesting clinical case load.

JOHN CRANFIELD

Assistant professor, Agricultural Economics and Business

Background: B.Sc.(Agr.) and M.Sc., University of Guelph; PhD, Purdue University

Teaching objectives: To encourage intellectual curiosity, independence of thought and action, an appreciation of lifelong learning and a deep understanding of the subject matter.

Research objectives: Current projects focus on consumer demand analysis and consumer behaviour, generic advertising investment decisions made by agricultural commodity organizations, and organization/structure/performance of the food-processing industry.

Attraction to U of G: The University

Research objectives: Nature of social-political transformations in West Africa between slave abolition and colonization.

Attraction to U of G: From the commitment of the members of the appointment committee and some of the discussions during my job interview, I formed a very positive

written assignments, seminar presentations, debates, simulations and group projects.

Research objectives: To examine social housing policy and the ways changing forms of governance have affected Canada's most vulnerable citizens — the urban poor.

Attraction to U of G: Guelph is a big

with the analytical tools necessary to critically evaluate events and theories surrounding public administration, law and policy in Canada and elsewhere.

Research objectives: I focus on the impact of judicial decisions on minority-language education policy and administration. In future, I want to apply my judicial impact model to investigate the effects of Charter of Rights decisions on policing policy and administration. Other potential projects include studying government use of strategic litigation and public opinion and the courts.

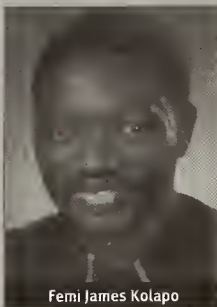
Attraction to U of G: It provides for a nice balance between research and teaching, and the Department of Political Science is welcoming and supportive.



Brigitte Brisson



John Cranfield



Femi James Kolapo



Judith McKenzie



Troy Riddell



Andrew Sherwood

has top agricultural economics and agribusiness departments and a broad diversity of research opportunities for young faculty members. Guelph is also a great city to live in.

idea of the History Department. Hence, out of the choices I had, it was easy for me to decide on the University of Guelph.

university with a small university feel. There's a strong emphasis on teaching, but there are many opportunities for research as well.

ANDREW SHERWOOD

Assistant professor, School of Languages and Literatures (classics)

Background: BA (ancient history and classical archaeology), University of Calgary; MA (classics), University of Victoria; PhD, MA (classical archaeology), Princeton University

Teaching objectives: To provide students with the proper methodology to do research and to analyse material coherently, no matter what discipline. Within my own field, I hope to generate an understanding of, and enthusiasm for, the influences that have helped form western culture.

Research objectives: To develop excavation projects that analyse cultural interaction with the Romans: in Jordan, on the fringe of the Empire, interactions with non-Roman; and in southern Italy, in the centre of the Roman world, the interaction of Greek and Roman cultures in the late Republic and Empire.

Attraction to U of G: The reputation of the University and the School of Languages and Literatures for having a more balanced view of the importance of both research and teaching. Guelph's proximity to major research libraries is also very attractive.

FEMI JAMES KOLAPO

Assistant professor, History

Background: BA, MA, Ahmadu Bello University, Nigeria; PhD, York University

Teaching objectives: To engage students in an appreciation of what and how fundamental forces have shaped world history, as well as how history is a continuum that reaches into the present and is thus a fundamental premise for the future.

JUDITH MCKENZIE

Assistant professor, Political Science

Background: Bachelor of environmental studies, University of Waterloo; MA, PhD (political science), University of Toronto

Teaching objectives: To develop various teaching techniques that cater to the learning styles of as many students as possible. I try to do this by introducing a variety of interactive, skill-developing requirements such as tutorials, choices of

TROY RIDDELL

Assistant professor, Political Science

Background: MA, University of Calgary; PhD candidate, McGill University

Teaching objectives: To introduce students to the processes and outcomes of public administration, public policy and public law in Canada; to make students aware of the importance of these processes and outcomes to politics and to them personally; and to provide students

King Novel Popular in Canadian Literature Courses

ANOVEL by Prof. Thomas King, *Literatures and Performance Studies* in English, has the distinction of being taught in more undergraduate Canadian literature courses across the country than any other work.

Green Grass, Running Water is taught in 15 Can lit courses, according to a survey by *Quill & Quire* magazine published in its November 2001 issue. The magazine examined reading lists for the 2000/2001 academic year from 29 Canadian uni-

versities, including Guelph. The next runner-up was Joy Kogawa's *Obasan*, taught in 13 courses.

King ranked fourth behind Margaret Atwood, Michael Ondaatje and Margaret Laurence in total number of works taught in Can lit courses.

Ten Atwood novels appear on reading lists in a total of 37 courses. Her novel *Alias Grace*, studied in nine courses, was the one most frequently taught. Seven Ondaatje novels are studied in 29 courses, and five

Laurence works are studied in 26 courses.

A total of 24 Can lit courses featured works by King, including his novels *Medicine River*, *Truth & Bright Water* and *One Good Story, That One*.

The rest of the list of 20 authors whose works appear most frequently on undergraduate reading lists includes Alice Munro, Carol Shields, Tomson Highway, Mordecai Richler, Robertson Davies and Timothy Findley.

Green Grass, Running Water and other King novels are taught in numerous courses at Guelph in addition to Canadian literature surveys. They are also studied in history, religion, geography, anthropology and native studies courses.

Prof. Ajay Heble, *Literatures and Performance Studies* in English, has taught *Green Grass, Running Water* in a fourth-year Canadian literature seminar and a graduate course.

The story is about five Blackfoot Indians leading seemingly separate

lives who discover their paths are connected in unexpected ways.

Heble says the novel is popular for "its use of satire and its innovative engagement with questions of history. It treats complex cultural issues with humour. I think students really appreciate that."

A 1999 *Quill & Quire* survey ranked *Green Grass, Running Water* 15th in the top 40 "most interesting, important and influential" books published in the 20th century.

BY STACEY CURRY GUNN



Spreading the Word

Informal meetings over coffee and muffins are being held across campus to provide information about the campus community campaign. At a recent session are Trish Dean of Financial Services, centre front, and, from left, Martina Storey, Cathy Fletcher and Susan Thompson of Human Resources. Anyone who contributes to the campus community campaign by midnight March 15 will be eligible to win free parking on campus for a year. Anyone who has not received a pledge form from their department volunteer can call Ext. 6506.

PHOTO BY MARTIN SCHWALBE

Enviropig Disposal a Legitimate Concern, Says Research VP

University takes steps to prevent a recurrence

THE RECENT inadvertent disposal of genetically modified material from a Guelph research program raised some legitimate public concerns, says Prof. Alan Wildeman, vice-president (research).

"We took this incident very seriously," he says. "Because it involved genetically modified animals, we knew people would have questions and concerns. So we acted quickly to inform the authorities and the public."

The University learned Feb. 12 that deceased piglets involved in a Guelph research program on environmentally friendly pigs had been inadvertently removed for rendering. U of G contacted the Canadian Food Inspection Agency (CFIA) and took steps to prevent a recurrence, Wildeman says. It also

posted a notice on the University's Web site about the incident.

The CFIA, Health Canada and Environment Canada took joint action on the incident, says Wildeman, "and we are working with the government on its investigation."

Independently, Health Canada conducted a qualitative risk assessment and concluded that this incident represents minimal risk to human health. The federal agencies also issued a news release, as did the University.

"The media and others took this incident as seriously as we did," says Wildeman. "Concerns were expressed, but for the most part, the media reacted in a balanced and responsible manner. The news reports reiterated the fact that there was no concern for public safety and that this research is important both for the environment and for humans."

The incident happened when a rendering company, contracted to remove deadstock from Guelph's Ridgetown campus, removed 11 deceased transgenic piglets. The piglets were either stillborn or died shortly after birth.

The animals were being stored in a freezer and were awaiting transport to an approved facility for disposal. The material was labelled and wrapped in special identifying packaging, Wildeman says.

The pigs, trademarked Enviropigs, have a single modified gene that allows them to produce phytase, an enzyme that is present in the intestines of most mammals. The ge-

netic modification allows the pigs to digest phosphorus in the plant material they consume, which reduces the phosphorus content in their manure by up to 75 per cent.

"The research done to date indicates that the enzyme is the only trait that distinguishes these transgenic pigs from 'regular' pigs," says Wildeman. He adds that the phytase enzyme is deactivated when heated for five minutes, so the very high temperatures in the rendering process completely removed the enzyme.

"This research has produced the world's first environmentally friendly farm animals and will benefit the environment and humans alike," he says.

Animal waste is a leading source of agricultural phosphorus pollution. Phosphorus contaminates surface and groundwater and promotes the growth of algae, reducing available oxygen to aquatic life.

"There has been a great deal of study on these animals, and the success of the research to date has attracted international attention," says Wildeman. "But because the research has not reached the commercial stage, the material was not yet approved for release into the environment."

He adds that Canada has one of the most rigorous food-safety assurance programs in the world.

"We value the diligence that these federal agencies put into ensuring public health and safety."

BY LORI BONA HUNT

Nominations Sought for Student Life Awards

THE OFFICE of Student Affairs is calling for nominations for four annual awards — the R.P. Gilmor Student Life Award, the Student Leadership Rookie Award, the Brian Sullivan Student Leadership Award and the Andre Auger Citizenship Award.

The Gilmor Award is open to any U of G student, faculty or staff member, Guelph graduate or community member who is committed


to the betterment of student life on campus. The Rookie Award goes to a student who has made invaluable contributions in his or her first year of active involvement on campus. The Sullivan Award recognizes a graduating student who has made significant contributions to student leadership through involvement in an elected or appointed position. The Auger Award honours a student who has demonstrated a sense of

personal responsibility and community commitment through volunteer involvement.

Nomination deadline for all four awards is March 8. More information is available on the Web at www.studentlife.uoguelph.ca/lip or from the University Centre Information Desk, the Central Student Association, the Graduate Students' Association, Student Affairs or Career Services.

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FEELING THE GLOBAL ENVIRONMENTAL SQUEEZE

*"We need a new set of revolutionaries who will bring
an immediate 20-per-cent reduction in use of fossil fuels"*

BY GEORGE WOODWELL

Editor's note: George Woodwell, founder, president and director of the Woods Hole Research Center in Woods Hole, Mass., visited campus last month to speak in the College Faculty of Environmental Design and Rural Development colloquium series. This is an excerpt from his talk on "Security and Insecurity in a Terrified World."

THE INSTABILITY OF CLIMATE is but one of several environmental trends that individually have the capacity for disruption of civilization no less than the threats of war and political chaos that regularly grip the world. The fact is, the trends are under way and the processes far advanced. Unchecked, they lead inexorably to the biotic impoverishment of the earth, to the economic impoverishment of all and to political chaos. As they progress, they quickly multiply the difficulties of maintaining stable and effective governments, capable of reversing the trends and preserving both human welfare and the opportunity for a working democracy.

The trends are well known: the growth of the human population; biotic impoverishment; toxification; and climatic disruption caused by global warming.

These trends, as seriously threatening as they are, point to one essential transition that might come of this most frightening moment in human affairs. It is the recognition that civilization, the entire advance of the human enterprise globally over the three million years or so of recent human evolution, has depended on the integrity of function of a human environment best characterized as *the biosphere*. I use the term inclusively to reach to the limits of life on Earth, from the stratosphere, which may contain microbial spores — the dust of life — to the limits of life in the depths of the Earth.

The most essential feature of the biosphere is that it is a living system maintained by life processes themselves. The reality and importance of that observation are conspicuous now in the accumulating global failure of that system, a failure that is changing the environment out from under all of us at the very moment we are reaching out to meet the needs of soaring human numbers and expectations. The consequences to global, national and individual security are no less threatening than those of economics and war. They may, in fact, be a cause of war as the vise of environmental impoverishment closes.

The global environmental squeeze is the global integration of specific local failures around the world. It is a clear sign that we need to look around ourselves, our lives, our houses, our farms and our municipalities and nations and readjust all our activities to conform to a set of standards that, when summed to the world as a whole, re-establishes a stable and sustainable biosphere.

It is a major task, re-establishing the dominance of natural ecosystems in management of the Earth. But it is the only path that can work. Preserving the Earth as a self-maintaining, regenerative living system is the emergent, essential objective. It is more important than war because, failing, there is nothing worth fighting over. It is important enough to be a basis for challenging not only human activities but also inventions, technologies and even dreams.

There is ample precedent in law and in human affairs. It is unacceptable, for example, to murder one's fellow citizens by spreading mercury over the landscape or to make children stupid by exposing them to lead or to distribute DDT in the United States. It is a small step to move from protecting personal security from poisons distributed by one's neighbour or by industry for profit to protecting the security of all by managing landscapes and regions to preserve their physical, chemical and biotic integrity.

The key elements are energy and forests, and both demand attention now. There is a clear connection to the present world crisis as the United States moves to protect its interests in access



to Arabian oil, moves to assure its interest and even control over oil in the Asian republics of the former Soviet Union, and attempts to increase its own domestic production despite a lack of reserves. But the infatuation of the industrialized world with oil is a cause not only of climatic disruption, political instability and bellicose bluster punctuated by occasional outbreaks of war, but also of a host of serious pollution problems such as the acidification of rain with oxides of sulphur and nitrogen that contribute to biotic impoverishment globally.

The threat to security appears double-edged. There is an immediate economic threat if oil is cut off and a slightly less immediate but real (and global, environmental and economic) threat if it is not.

The problem is not only the use of oil, coal and gas for energy. Each year, deforestation globally produces about 20 per cent as much carbon as carbon dioxide as the global combustion of fossil fuels does. Forests are so large in the world in area, in carbon content, and in their influence on global and local energy and water budgets that we must think of them as the great biotic flywheel that keeps the biosphere functioning as a stable human habitat. Deforestation contributes about 1.6 billion tons of carbon annually to the total of about eight billion tons released annually through human activities. To reduce that total by three to four billion tons (the estimated reduction needed to stabilize the composition of the atmosphere) will require attention to forests as well as fossil fuels, if only because forests are the natural vegetation of such a large fraction of the land area, about 44 per cent, and have such a large influence on energy, water and climate regionally and globally.

The absolute protection of the Earth's remaining primary forests, most of which lie in the tropics of Africa and in the Amazon Basin, Borneo and Siberia, is the other immediately parallel step. A corollary is the restoration of forests to once-forested lands as a step in restoring the functional integrity of landscapes such as Haiti and a thousand other impoverished and eroding drainage basins around the world. The efforts begin at home, but they ultimately sum to a biosphere that is either functional and has a future or is progressively dysfunctional and a certain cause of continued political instability and spreading human misery.

Although the world will see many causes of the immediate crisis and as many solutions, ecologists are not mistaken in their recognition of a chain of dependencies between human welfare and the fundamental resources of air, water, land and a place to live. It is in defence of equity in access to those that we establish governments, at least in the democracies. The world is correct at this moment in making a major political decision to stamp out terrorism, but there is always going to be desperate resentment in a world where there continues to be an increasing and soaring differentiation of rich and poor, of haves and have-nots, of equity and lack of equity in opportunity to live in safety and comfort under well-regulated laws. Despite the necessity for a major global effort in controlling and, if we are persistent and fortunate, eliminating terrorism, nothing has changed the urgency of addressing the decay of the human environment through climatic disruption and biotic impoverishment.

Our concern is now classical, that is, long-standing and consistent: climatic disruption through human-caused changes in the composition of the atmosphere.

The basis is rooted in science that has a century and more of research behind it. And there are, despite persistent critics and neo-expert critics, abundant recent data confirming the transitions and abundant new insights into the working of the global bioclimatic system.

Time is short. The world is already at levels of heat-trapping gases that will produce effects outside the realm of predictability and therefore outside the realm of acceptability or reasonable risk. The global transition of Sept. 11 only makes the issue more urgent, not less, as some would have it.

That is the objective: a massive shift away from fossil fuels toward locally available renewable sources of energy, and toward the restoration of the functional integrity of land and water as essential to continued human habitation of the biosphere. Both are essential to human security and to the independence, self-sufficiency and security of individuals and nations.

The transition need not be immediate; it cannot be. It requires public leadership and, ultimately, governmental responsibility and support. But the opportunity to make that transition is here. It can start with a young and vigorous scientific community. We need a new set of revolutionaries who will bring an immediate 20-per-cent reduction in use of fossil fuels nationally by the United States and other industrialized nations and who will advance the restoration of the functional integrity of the biosphere as the local, national and global responsibility of this generation and essential to ridding the world of terrorism in all its forms.

All have been left reeling and sickened by recent events and the continued march of uncertain military and political sequelae. Although there is an overwhelming sense that we have experienced a major transition in the globalization of the human endeavour, the urgency of the environmental transition has become only more acute. There is a major opportunity for the scientific and political communities to advance a genuine revolution in the human undertaking, replacing what U.S. architect Bill McDonough calls a strategy of failure based on the corruption and impoverishment of the human habitat with a strategy of hope based on the biosphere's potentially infinite capacity for renewal and self-repair.

BUILDING A BETTER JOYSTICK

Engineer aims to reduce repetitive strain injuries in heavy-equipment operators

BY ANDREW VOWLES

"MY GREATEST WISH at age seven or eight was to play in the NHL." Seated in her still-new office in the Thornbrough Building, Prof. Michele Oliver smiles as she recalls that early ambition. She was one of the only girls in her native Scarborough to play organized hockey before trading in her skates to concentrate on swimming, a move that nearly earned her a berth on the 1976 Olympic team.

Years later, she has carried something of that trail-blazing spirit to her new position and her novel research topic as a recently appointed faculty member in the School of Engineering. She plans to follow up on her groundbreaking doctoral research aimed ultimately at helping build a better hydraulic actuation joystick.

Oliver brings together graduate degrees in kinesiology and mechanical engineering — both completed at the University of New Brunswick — to study the effects of hydraulic actuation joystick controllers on those who operate the heavy mobile equipment used in everything from forestry and mining to sawmills and construction.

Although repetitive stress disorders — and the attendant costs in dollars and lost time — have been well-documented among keyboard users, few people have studied the problem in joystick operators. "It literally is an unplowed field," Oliver says.

Hard data are lacking. But anecdotes are rife about repetitive strain injuries in hands, wrists, necks and backs linked to poorly designed joysticks. She recalls a telling case of her own, involving two men who were operating an excavator during construction of a neighbour's backyard pool. It turned out that both had undergone wrist surgery for carpal tunnel syndrome.

Ultimately, she hopes to help the four or five major producers of hydraulic joysticks to design better equipment. Build a better joystick, she figures, and you'll cut down on repetitive strain injuries, lost time and the costs of rehabilitation and workers' compensation.

Costs — not of compensation but of equipment — had initially prompted Oliver's UNB doctoral supervisor to suggest she investigate the field, after he had visited a forest products company that had just bought 10 tree-harvesting machines, each worth about \$300,000.

Using a mockup of a joystick-controlled excavator, she found that repeated side-to-side movements would cause more problems than fore and aft motions. (Studies have shown that machine operators make more than 20,000 repetitive motions with a joystick over the course of a 10-hour shift). Here at Guelph, she plans to continue that work and to conduct an epidemiological study involving real operators in the field.



Oliver found her way to engineering more by accident than design. While studying physical education and kinesiology for her undergraduate degree at McMaster University, she had been considering a career as a swimming coach.

She began swimming competitively at age nine with her home town club in Scarborough. Having reached the national team as a long-distance freestyler, she was a medallist at international events such as the Pan-Am Games and World Student Games, and just missed securing a place on the Canadian squad for the 1976 Olympics. She went to Arizona State University on a swimming scholarship, then returned to Canada to complete her degree in 1981. Swimming in CIAU competitions for McMaster, she won gold medals for the 400-metre individual medley two years in a row.

Oliver landed the job of head swimming coach at UNB, where she coached both men's and women's teams while completing a master's degree in exercise physiology part time. She

returned to coach at the Etobicoke Swim Club, but found herself uncertain about pursuing a full-time coaching career.

After working in her husband's exercise physiology lab for a year, Oliver followed up on a suggestion from her eventual UNB thesis adviser that she consider engineering.

"When I finished my comprehensive exams in mechanical engineering, it was like having made the Olympic team," she says.

Oliver came to Guelph last summer with a five-year Natural Sciences and Engineering Research Council faculty award worth about \$300,000. She says she found a match between her background and U of G's biological engineering program, which combines her dual expertise in engineering and kinesiology along with other disciplines. She's also found herself reaching back to her coaching days in a different context: her second-year materials science course.

"It's interesting how much a coaching background comes into teaching," she says.

Oliver notes that technological advances usually focus on making things that work, whereas her interest lies in ensuring that equipment is designed with the user in mind. "Therein lies the reason why it's good to look at things from a number of different perspectives."

She believes U of G will offer a supportive environment for an intellectual risk-taker working in a largely uncharted research field. She shares lab space with Prof. John Runciman, whose work in clinical biomechanics complements her research on the occupational biomechanics side, involving studies in the workplace.

"People are so open to collaborative work here," says Oliver, adding that she's investigating projects with Department of Psychology faculty interested in aspects of human/machine interaction.

Another holdover from her UNB days is her interest in summer engineering camps for youth. At New Brunswick, she worked in the dean's office as an outreach co-ordinator helping to inform elementary and secondary students about science, technology, engineering and math. This included involvement with a summer camp program for six- to 14-year-olds.

Having helped in administering a survey at UNB about the impact of the program, she plans to apply for a grant from the Social Sciences and Humanities Research Council to do a follow-up study of several outreach programs at Canadian universities, including UNB and Guelph.

She still commutes every two to three weeks to New Brunswick, where her husband, Jim Sexsmith, is a kinesiology professor at UNB. Along with their two children — Alex, 8, and Collin, 5 — they will move this summer to their new home in Hespeler.

PHOTO BY MARTIN SCHMABE

HAFA Students Benefit From Industry Leader's Insights

KPMG hospitality consultant is executive-in-residence for winter semester

KEEP YOUR MIND and your options open. That's the advice hospitality consultant Lyle Hall had for students in the School of Hotel and Food Administration this month when he visited as the school's executive-in-residence for the winter semester.

Hall, who is national director of KPMG Canada's Hospitality, Leisure and Tourism practice based in Toronto, encouraged HAFA students to be as open-minded, inquisitive and knowledgeable about the industry as possible and to be prepared to consider a range of options.

To those students who expressed

concern about the options open to them given the current economic situation, he noted that there have been economic meltdowns before, and that this industry, like all others, will come out of it. "There will always be opportunities. What's important is that you prepare and present yourself for whatever the opportunities might be."

Hall holds a bachelor of commerce from the University of Calgary, is a certified management consultant and is a member of the International Society of Hospitality Consultants. Before joining KPMG in 1990, he was associated with an international and national consulting

firm specializing in the hospitality and tourism industries. He also has several years of experience in the food-service industry as an owner/operator.

During his stint as executive-in-residence, Hall was impressed by HAFA students and faculty alike. "I was impressed with how keen and inquisitive the students were, and I was struck by the high regard they had for their teachers. I was also impressed with the broad experience base of the faculty. I expected people who primarily had a hospitality background, and there were cer-

tainly those, but there was also a broad range of backgrounds in other sectors such as human resources, organizational behaviour and management. This gives students a much broader sense of the industry."

Hall adds that his experience at HAFA "has given me a good appreciation for the quality of the people who are out there. And when I see the level of dedication of the faculty, I feel there's an obligation on those of us in the industry to give something back, to provide more opportunities for students in terms of co-op and career opportunities."

Launched in 1990, the execu-

tive-in-residence program runs each fall and winter and is designed to give HAFA students an opportunity to learn from successful and prominent industry leaders. Program co-ordinator Geoff Smith, an advocate of strong partnerships between academia and industry, says the program helps build such partnerships by bringing students and industry leaders together to discuss industry issues and opportunities.

In the fall, HAFA will welcome Bill Johnson, president and COO of McDonald's Restaurants of Canada Limited, as the next executive-in-residence.

LETTERS

FORMER GRYPHON WILL BE MISSED

Const. Laura Ellis, a 1994 B.Sc. graduate of Guelph who was an officer with the Toronto Metro Police, was killed in a car crash Feb. 18 as she and her partner sped to an emergency call. The 31-year-old is the first female officer in the history of the force to be killed on duty. She had just returned to work after a year's maternity leave.

Const. Ellis represented U of G as a member of the University's varsity field hockey team from 1989 to 1994 and was team captain and two-time MVP. She has maintained constant contact with our Gryphon family since her graduation, participating on our competitive alumni teams throughout the years. She was a valued teammate and a true friend who will be sorely missed.

Richard Freeman
Department of Athletics

UPTALK NOT JUST A CANUCK PHENOMENON

I enjoyed reading Prof. Hank Davis's recent piece on "uptalk" (@Guelph, Feb. 13). I, too, have tried for years to alert students to it after their oral presentations.

I agree that it's a concern largely for female students, doubtless for the reasons he cited. But I believe the phenomenon much predates Valley Girl talk and that it is quite independent of U.S. usage. My students (mostly female) were using the rising inflection long before then.

Moreover, I've found it in Australian, New Zealand and British speech, so I think I'd argue that

"uptalk" is not, in fact, a Canuck "epidemic," as Prof. Davis puts it, but much more widely distributed in the anglo world. I fear that his British host/respondent was not sufficiently tuned into U.K. speech.

Prof. Jun Shute
Centre for International Programs

THANKS FOR THE YEARS OF SUPPORT

As I end my career as convocation secretary in the Office of Registrarial Services, I wish to say a special thank you to all those on campus who have supported this special function of the University.

It is the dedication and support of all people involved — Transportation Services, faculty members, technical support staff, the Student Awards Committee, groundskeepers, housekeepers, Hospitality Services staff, the chief marshal, the convocation co-ordinator, the Convocation Committee and the support and professional staff within Registrarial Services — that have made it a great occasion year after year for our graduands.

I would also like to thank former registrar Arnold Holmes for this opportunity to serve the University in this capacity.

Lois Thompson
Office of Registrarial Services

* * *

@Guelph welcomes letters to the editor. They should be limited to 500 words, signed by the author and submitted electronically. @Guelph reserves the right to edit letters for length, style and clarity. Submit letters to Barbara Chance at b.chance@exec.uoguelph.ca.

What Makes a Home?

PhD researcher seeks participants for family relations study

WHAT DOES IT TAKE to turn a new house into a home? Guelph graduate student Sarah Allen hopes to find out with the help of some local families.

Allen, a PhD candidate in the Department of Family Relations and Applied Nutrition, is researching the relationships among place, space and home and wants to use families in the Guelph, Kitchener, Waterloo and Cambridge areas as research subjects. The project is being supervised by Prof. Kerry Daly.

Allen is looking for couples who have moved to the area in the past two years and have no prior work or living experience in their new city. She is interested in speaking to couples who have at least one child un-

der the age of five and who have frequently moved within Canada.

"Home is an integral part of family life, but it has not been well explored, especially the effect relocating has on how a couple defines and experiences home," Allen says.

Canadian society is increasingly mobile, with many families calling many places "home" over a short time, she says. In fact, over a five-year period, 48 per cent of the Canadian population changes residence at least once.

"This results in questions of identity and belonging, and more needs to be understood about the processes involved in changing new spaces into meaningful places."

Couples will be interviewed separately for about an hour and a half, with times and places to be arranged at the participants' convenience.

"I'm interested in what the couples have done to make themselves feel more at home, how they form attachments and establish an identity, and what obstacles they've encountered in that process," Allen says.

She will also explore whether there are gender differences in the ways couples negotiate and construct their new home environments.

For more information or to participate in the study, contact Allen at Ext. 2210 or sallen@uoguelph.ca.

BY LORI BONA HUNT

Trust Fund to Aid Burn Victim

A TRUST FUND is being set up to help burn victim Jason Barrett, the son of Prof. Stan Barrett, Sociology and Anthropology, and his wife, Kaye, a staff member in the Centre for Students with Disabilities.

Jason was a student at St. Francis Xavier University in Antigonish, Nova Scotia, when he was badly burned in a house fire in November. Despite severe burns to 83 per cent of his body, he is recovering in the burn unit of a Halifax hospital. His parents and sister are keeping constant vigil with him.

As the family deals with the emotional aftermath of the accident, financial pressures are mounting, says retired psychology professor Wayne Gatehouse, a family friend. Many of

the associated costs are not covered by insurance.

For example, Jason immediately needs four "body pressure" garments that are used to strengthen grafted skin, make it more pliable, reduce any future scarring and make the grafts blend in with other skin, Gatehouse says. The garments cost about \$1,500 each.

Jason will have to wear them 23 hours a day for the next two years, alternating two sets around washing and drying cycles. The garments have a lifespan of about four to six months, so more will eventually need to be purchased.

To help cover some of the associated medical costs, Gatehouse and other Guelph friends are approaching local service clubs and appealing

directly to the citizens of Guelph and the University community.

"Our immediate objective is to raise enough funds to help purchase the specialized garments required," he says. "If more funds are raised, they will be held to support Jason's medical needs until such time as they are no longer required. In the event there are funds that are not required, they will be donated to medical projects or causes within Guelph."

Anyone wishing to make a contribution can send a cheque made payable to account #6208935/131 to Dina Carter in the Department of Sociology and Anthropology. For more information, call her at Ext. 6526.

BY STACEY CURRY GUNN

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Community Input Sought on Academic Advising

Editor's note: The following open letter to the University community was submitted by Prof. Maureen Mancuso, associate vice-president (academic) and chair of the Committee to Review Academic Advising.

OVER THE PAST DECADE, the University of Guelph has experienced unprecedented growth, development and change, not only in the number of students in the undergraduate degree programs but also in the number and variety of academic programs and opportunities now available. In the next few years, the University will accept students from the "double cohort" years, some of whom are not only younger than previous first-year cohorts but are also the products of a significantly revised secondary school curriculum. All these changes have implications for advising.

To guide students through the academic choices and decisions they make, the University provides extensive academic advising resources, including faculty academic advisers and program counsellors. These advisers and counsellors participate in a multitude of student interactions, from liaison, recruiting and admission activities; through program and course selection information advice, support for students in academic difficulty, information on career options and graduate school opportunities; to the final graduation approvals process. Advisers and counsellors are also responsible for interpreting and upholding the University's undergraduate degree regulations and procedures.

In May 2001, the office of the associate vice-president (academic) was charged by Senate to review academic advising at U of G. This committee was struck in October 2001 with a mandate to ensure that Guelph "has a coherent and structured academic advising system that is well-positioned to meet the needs of students and to support the University in meeting its enrolment and student retention targets over the next five years." The committee is to report its findings to the provost in spring 2002.

As the first phase in the consultation process, we are inviting comment and input from all members of the University community. In particular, here are some questions the committee would like your input on:

- What are the strengths and weaknesses of the University's current undergraduate advising systems?
- What changes do you anticipate in advising needs as a result of the double cohort?
- What are the challenges faced in implementing effective academic advising services?
- What are your recommendations regarding academic advising administration and delivery of service, including — but not restricted to — accountability, levels of co-ordination, direction and supervision of academic advising and program counselling?
- What support, development and training do advisers need?

Any insight you might share in response to these questions and any other comments you would like to make can be sent to me directly through e-mail (m.mancuso@exec.uoguelph.ca) or by mail.

In addition, a Web site will soon be established at www.vpacademic.uoguelph.ca. The committee will be reviewing the discussion page regularly to collect comments posted there. We would appreciate hearing from you by March 15.

On behalf of the committee, I thank you for your participation in this review.

Retired Zoologist Donates Materials on Sea Lamprey

EVERYTHING you ever wanted to know about sea lamprey — a longtime bane of fisheries in the Great Lakes — is now as close as the U of G Library, thanks to a recent donation of a personal collection of books and papers by retired zoology professor Bill Beamish.

The collection, equivalent to some six to eight filing cabinets' worth of material, includes Beamish's exhaustive bibliography of research publications on lamprey and their hagfish relatives, as well as a copy of every research paper published on these jawless fishes.

Although Beamish was one of a few scientists to focus on lamprey biology, zoology professor David Noakes, director of the Axelrod Institute of Ichthyology, says more people are interested in the economic impact of these creatures.

"Many people in North America study lampreys because they're a practical concern and because there's money available."

Noakes says the problem of sea lampreys in the Great Lakes is a textbook case of what can go wrong when exotic species find their way into new habitat. Canada and the

United States now spend millions of dollars each year to control sea lamprey, which might otherwise decimate the multi-billion-dollar sport fishery in the Great Lakes.

Beamish is now teaching on contract in Thailand after decades spent studying and teaching at Guelph.

His collection includes every paper about the biology of lampreys and hagfishes, as well as their environmental impact and control.

"Lampreys are also of interest because they're very primitive animals," says Noakes, who has studied the effect of barrier dams on lamprey migration in freshwater streams. "They're close to the ancestors of animals that gave rise to vertebrates."

A former member of the Senate Library Committee, Noakes has arranged for the donation of Beamish's collection through chief librarian Michael Ridley. The library already has related personal research collections, including material from professor Babu Ali of the University of Montreal and retired Guelph zoology professor Eugene Balon.

BY ANDREW VOWLES

Future Looks Green for OAC Diploma Graduate

A 2001 GRADUATE of OAC's diploma program in horticulture has won the Canadian Golf Superintendents Association (CGSA)/Toro Future Superintendent Award.

Darryl James will officially pick up the award at the CGSA conference in Quebec City in March, but

it's already taken him on an all-expenses paid trip overseas to the oldest, and most famous, golf course of all. He spent 10 weeks in Scotland before Christmas, working at the historical St. Andrews golf course and taking turf-related classes.

"St. Andrews is the best links golf course in the world," he says. "It was

a phenomenal experience. It's a dream come true."

The award also resulted in a recent four-day trip to Minneapolis to tour the Toro Company headquarters and manufacturing plant.

James has received other accolades that indicate he has a bright future in the industry, including a

CGSA scholarship while a student at U of G. He graduated top of his class, winning the K.W. Caldwell Graduation Award and the Western Ontario Greenskeepers' Association Prize.

Fresh from his travels, James has accepted a position as assistant superintendent at the Lake Joseph golf course in the Muskokas.

OAC's horticulture diploma is "the course to take" if you want to get into the industry, he says.

"Golf is growing every year with all the baby boomers retiring. It's important to be knowledgeable about all the issues, from the benefits of the golf course to environmental concerns."

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Who Knows What Lurks . . .

Computing scientist explores differences between people who publicly participate in electronic communities and those who prefer just to look on

HEAR Prof. Blair Nonnecke, Computing and Information Science, mention his studies of "online lurkers" and you might imagine something nefarious — shady types trying to hack their way into top-secret computer systems, for instance, or someone planning to wreak havoc through the next computer virus. The U of G professor's research turns out to involve matters that are not quite so sinister but are no less intriguing.

Nonnecke, who arrived at Guelph last year after more than a decade as a software consultant and a researcher, studies participation in virtual communities such as Web-based discussion lists, chat rooms or bulletin board systems. Specifically, he's interested in the differences between people who publicly take part in these electronic communities and the "lurkers," the overwhelming majority of members who apparently prefer listening in to speaking up.

Although his work is largely curiosity-driven, Nonnecke says that as online communities proliferate, it's becoming more important to understand the workings of these communities. Besides helping these forums work more effectively, he says the sociological and psychological aspects of his work might even help us understand more about how real flesh-and-blood groups work and communicate.

Thousands of discussion lists, chat rooms and bulletin board systems are maintained on such Internet servers as Yahoo — with some servers logging millions of messages a day.

They play an important role in bringing people together, including far-flung people who might not otherwise get together except for their shared interest in a particular topic, Nonnecke says.

Name practically any topic you can think of and you're likely to find an online group. That's particularly true for health and medical topics. He says people often turn to these online groups to supplement information and advice from their doctors and other medical professionals.

"If there's a health problem, there will be at least one or two communities," he says.



Some 90 per cent of the members of online communities are "lurkers," people who rarely participate in discussions, says Prof. Blair Nonnecke. PHOTO BY DEAN PALMER/THE SCENARIO

Yet only about one in 10 members of an online community actively participates by posting messages to discussion groups or other online forums, says Nonnecke. The other 90 per cent — called lurkers in electronic community parlance — belong to the forum and probably read the postings, but rarely join the discussion with messages of their own.

For his PhD thesis, Nonnecke compared lurking in 77 health-related online communities and some 21 software self-help communities. "I was interested in understanding the relationship between the levels of lurking and the type of community."

His interest in the topic grew out of his work as a researcher at the University of Maryland. There he worked with computer science professor Jennifer Preece, whose studies of human-computer interaction included empathy among members of online health-care communities. "It just blew me away, the differences in these communities," he says.

The main distinction was that, on average, about half of the users in the health communities took part in the discussions, compared with the more standard 10 to 20 per cent among the software group. Some of the health communities even saw full participation among members.

Nonnecke speculates that the difference might reflect more empathy — and perhaps a greater sense of urgency — among members of health communities.

"The health people are there not to gain information about software but to get information about their lives. The imperative to get information might be higher."

He turned into a lurker himself while monitoring the discussions and looking for patterns in some 147,000 e-mail messages collected over a three-month period. From that surveillance and from interviews with some community members, he discovered many reasons for maintaining online silence.

"Lurkers are idiosyncratic," he says.

Nonnecke offers several possible reasons for lurking online. Some people may believe their active involvement might jeopardize their security or they may merely be shy. Others may lack the time for active commitment. Some people who lurk in one community might be active participants in another.

Or maybe some people are hanging back until they learn the values and protocols that govern participation in these communities. Despite being separated in time and space, members of an online community often abide by the same kinds of social protocols that guide flesh-and-blood gatherings of people, he says.

That's also partly why lurking is a bad word among some online users. Imagine asking a question during a meeting in a colleague's office or in the boardroom and being met with nothing but silence. Members of an online community might wish to remain silent and anonymous, but that silence may be taken as a rebuff or an insult.

Nonnecke adds that online communities might find useful information in his study — or more generally in his work on lurking — about ways to make their group more inclusive or to encourage more public participation. Among the ideas: encouraging members to share their stories or writing a code of conduct.

Nonnecke earned his undergraduate and master's degrees at Guelph and his PhD at South Bank University in London, England. Just before joining the faculty of U of G, he was director of usability at Maptuit, a Toronto company that provides online map and location-based services. Prior to that, he was a research assistant at the University of Maryland Baltimore County and a partner with Convivia Interactive Design in Guelph. His work with Convivia included helping to design U of G's Open Learning Web site.

His current work on campus includes a collaborative project with Prof. Lana Mae Trick, Psychology, to study the effects of aging on driving. They have applied for funding from the Canada Foundation for Innovation to buy equipment for this project.

BY ANDREW VOWLES

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Furnished two-bedroom townhouse in family housing complex on College Avenue to sublet from April or May to August, rent to be negotiated, 767-0634 or jcockcro@uoguelph.ca.

One-bedroom apartments for students, available March 1, \$700 to \$738 a month inclusive, pets welcome, Ext. 6884.

Five-bedroom house near Stone Road Mall, 10-minute walk to campus, on bus route, new washer, dryer and dishwasher, available May 1, \$2,000 a month plus utilities, 827-9221.

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ARBORETUM

"Pond and Woodland Gardening" is the focus of a workshop led by horticulturist Henry Kock March 21 from 9 a.m. to 4 p.m. Cost is \$32. Registration and payment are due March 7.

Naturalist Erin Hawkins will lead a workshop on stone wrapping March 21 from 6 to 8:30 p.m. Cost is \$43. Registration and payment are due March 7. Hawkins will also lead a workshop on "Window Webs" March 28 from 6 to 9:30 p.m. Cost is \$43. Register by March 14.

Naturalist Chris Earley will lead a workshop on stone March 13 from 9 a.m. to 4 p.m. and April 6 from 8 a.m. to 11 a.m. Cost is \$65. Registration and payment are required by March 6.

ART CENTRE

Continuing until March 17 at the Macdonald Stewart Art Centre is the show "The John and Gisela Sommer Collection — 40 Years of Collecting at Gallery House Sol." The Sommers give a gallery talk March 12 at noon.

CONCERTS

The Thursday noon-hour concerts continue Feb. 28 with the Recorder Ensemble, March 7 with the U of G Early Music Ensemble and March 14 with pianist Robert Bruce. Concerts are in MacKinnon 107.

LECTURES

The Colonel K.L. Campbell Centre for the Study of Animal Welfare will host the Basil Capes Memorial Lecture March 4. Bo Algers of the Swedish University of Agricultural Sciences will discuss "Welfare and Efficiency: Can They Be Put Together in Piglet Production: A Swedish Example" at 7:30 p.m. in OVC 1714.

Third Age Learning's lecture series for retired people continues March 6 with Diane Pawlowski and Lisa Hardess discussing "A Canadian Graduate Student's Fieldwork and Local Contact in Rural China" at 10 a.m. and Prof. Nonita Yap, Rural Planning and Development, on "Industrial Waste in Rural Contexts: Challenges for Policy and Practice" at 1:30 p.m. On March 7, "Natural History of Community" is the topic of Arboretum naturalist Chris Earley at 10 a.m. Topics for March 13 are "Taiwan: Unification of China" with B.N. Chan at 10 a.m. and "Ecosystems Health: A Practical Approach

for Real Solutions in Rural Development" with Prof. David Rapport, Rural Planning and Development, at 1:30 p.m. On March 14, "Arts in the Community" is the focus at 10 a.m. Lectures are at the Arboretum.

"Darwin's Unpaid Debt: Why Natural Selection Cannot Design Anything" is the focus of William Dembski of Baylor University March 6 at 7 p.m. in OVC 1714. The public lecture is sponsored by the Canadian Scientific and Christian Affiliation.

NOTICES

A graduate student working with Prof. Alison Duncan in the Department of Human Biology and Nutritional Sciences is looking for healthy men aged 20 to 40 for a nutrition study to examine the effects of soy consumption on hormone levels. Financial compensation will be provided. For more details, contact Ext. 8081 or bdilling@uoguelph.ca.

Alumni Affairs and Development is looking for student alumni ambassadors to help plan and co-ordinate alumni events and activities this summer. A full job description and applications are available at Alumni House on Arboretum Road. Application deadline is March 18.

A presentation on the International Space University will be held March 6 at 10:30 a.m. in MacLachlan 101. To attend, RSVP by March 4 to Theresa Rondeau Vuk at Ext. 2909.

The Veterinary Teaching Hospital invites U of G pet owners to attend a Community Wellness Clinic on Friday afternoons and Saturday mornings. For more information or to book an appointment, call Ext. 4198 or 823-8830.

READING

The School of Languages and Literatures presents Québecois author François Gravel, winner of the Mr. Christie Prize for Children's Literature in 1990 and the Governor General's Award in 1991, reading from a selection of his work March 4 at 7 p.m. in the University Club. The readings will be in French.

SEMINARS

Next up in the Department of Microbiology seminar series is Dennis Bazylinski of Iowa State University considering "From the Origin of Life to Mars: The Magnetotactic Bacteria Story" Feb. 28 at 2 p.m. in OVC 1714.

The Department of Microbiology graduate student seminar series presents Chris Vandende discussing "Deciphering the Functional Roles of PvcABC in the Synthesis of Pyoverdine, a Siderophore of *Pseudomonas aeruginosa* PA01" March 1 at noon in Food Science 128.

The Department of Pathobiology presents Paul Kitching of the Canadian Food Inspection Agency outlining "Developments in FMD Diagnosis and Control" March 1 and Henry Hunt of the Avian Disease and Oncology Laboratory in Michigan on "Development of Chicken Genetic Resources and Some of Their Applications for Studying Disease Resistance" March 8. Seminars are at 2 p.m. in Pathobiology 2106.

"Olfactory Communication in White-Tailed Deer: It Is More Than Just Talk" is the topic of Karl Miller of the University of Georgia in the Department of Zoology seminar March 1. On March 8, Bob Clarke of the Canadian Wildlife Service discusses "Selective Forces and Recruitment of Birds: From Eggs and Landscapes." Seminar are at 3:30 p.m. in Axelrod 265A.

The Department of Plant Agriculture is launching a seminar series titled "Frontiers in Plant Biology" March 4 with David Jackson of Cold Spring Harbor Laboratory in New York discussing "Two Ways of Talking: Receptors and Channels for Intercellular Signalling in Plants" at 4 p.m. in MacKinnon 031. On March 11, Jian-Kang Zhu of the University of Arizona considers "Cell Signalling in *Arabidopsis* Under Salt, Drought and Cold Stress" at 4 p.m. in MacKinnon 031.

Three candidates for a chair in CBS will give seminars next month. Arend Bonen, chair of kinesiology at the University of Waterloo, will speak March 4 at 2 p.m. in OVC 1713. His topic is "Protein-Mediated Fatty Acid Uptake: Novel Mechanisms and Implications for Diabetes." On March 5, Anthony Farrell, a professor of animal physiology and environmental toxicology at Simon Fraser University, will speak on "Fish Cardiorespiratory Physiology: Mechanisms and Applications to the Environment" at 2 p.m. in OVC 1715. On March 6, Steven Rothstein, most recently a research director at Pioneer Hi-Bred in the United States, will give a presentation on "The Use of Genomics for Crop Improvement: The Promise and the Reality" at 2 p.m. in Axelrod 337.

Next up in the Axelrod Institute of Ichthyology's seminar series is Nick Mandrak of Fisheries and Oceans Canada discussing "Ghosts of Fish Introductions Past" March 5. On March 12, Prof. Meg Thorburn, Population Medicine, considers "Fish Vet Meets Montgomery Burns." Seminars begin at 12:30 p.m. in Axelrod 168.

The Department of Physics presents talks by Robert Myers of the University of Waterloo March 5 and Richard Holt of the University of Western Ontario March 12. They begin at 4 p.m. in MacNaughton 113.

The Department of Consumer Studies' 5:30 Club hosts industry expert David Lithwick discussing "Competitive Intelligence" March 13 at 5 p.m. at the Whippettree. For more information, contact Liz O'Neil at Ext. 2572 or coneil@uoguelph.ca.

The biochemistry seminar series continues March 14 with graduate student Jumana Khambati exploring "Characterization and Functional Analysis of Human Cytochrome P450 1A2 Variants Expressed in *E. coli*" at noon in MacNaughton 222.

TEACHING SUPPORT

Teaching Support Services offers hands-on training in learning technologies for instructors, TAs and instructional support staff. Coming up are sessions on "Effective Courseware Design and Delivery" March 5, "WebCT Advanced Series: Session II — Quizzes" March 6, "Multimedia for Teaching" March 8, "Teaching With PowerPoint: The Basics" March 11, "HTML I: Creating Basic Web Pages" March 13 and "Producing Quality Video for Teaching" March 19. Full descriptions can be found at www.tss.uoguelph.ca. Online registration is required.

THEATRE

U of G's drama program presents *The Dog Beneath the Skin* by W.H. Auden and Christopher Isherwood March 11 to 16 at the Inner Stage. Performances are at 8 p.m. Monday to Thursday and 7 p.m. Saturday. Tickets are \$6 and \$8 and are available at the UC box office, Ext. 4368 or at the door.

THESIS DEFENCES

The final examination of PhD candidate Kenneth Payie, Food Science, is March 1 at 1:30 p.m. in Food Science 241. The thesis is "Purification and Characterization of a Novel Plant

Aspartic Proteinase: Elucidating the Role of the Plant-Specific Sequence." The adviser is Prof. Rickey Yada.

The final examination of Mary-Kathryn Calp, an M.Sc. candidate in the Department of Zoology, is March 7 at 8:30 a.m. in Axelrod 265A. The thesis is "Regulation of Steroidogenesis in the Goldfish Ovary by Activin and Transforming Growth Factor-Beta." The adviser is Prof. Glen Van Der Kraak.

The final examination of PhD candidate Jennifer Sumner, Rural Extension Studies, is March 8 at 1:30 p.m. in OVC 1713. The thesis is "Sustainability and Rural Communities in the Age of Globalization: Can We Learn Our Way Out?" The adviser is Prof. Al Lauzon.

WORKSHOPS

Computing and Communications Services is offering workshops for faculty and staff this winter through Human Resources. Up next are "Getting Around Access" March 5, "Corporate Time Basics" March 6 and "Getting Around Excel" March 7. For more details, visit the Web site www.uoguelph.ca/ccs.

COMMUNITY EVENTS

The Canadian Cancer Society holds its annual Jail-N-Bail fundraiser March 1 at Stone Road Mall. This year's jailbirds will include U of G participants Isobel Lander of the Centre for International Programs, *Ontario* editor Chris Lutz and student Sean O'Meara.

The Wellington Society for the Countryside presents a panel of four volunteers explaining how they fit into the Community Forest Initiative March 12 at 7:30 p.m. in the Gencor Meeting Room on Hwy. 6 just north of Guelph.

The Guelph Chamber Orchestra presents "Ludwig and Felix" March 3 at 3 p.m. at Church of Our Lady. The program of works by Beethoven and Mendelssohn features violinist David Gillham. Tickets are available at the door or by calling 763-3000.

The Guelph Off-Road Bicycling Association will hold its annual general meeting March 4 at 7:30 p.m. at the Evergreen Seniors Centre. The association will also stage its annual display at Stone Road Mall March 8 and 9. For more information, call 821-8013 or visit the Web site www.gorba.ca.

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Remembering Bob

Susanne Auger, widow of Bob Auger — a former and much-loved U of G associate registrar — takes a moment to reflect at her husband's memorial bench and tree on the Arboretum grounds. For a story on the campus community campaign's Robert G. Auger Humanitarian Fund, see Page 5.

PHOTO BY MARTIN SCHWALBE

Rozanski Declines to Stand for Third Presidential Term

Selection process for next president begins

SIMON COOPER, chair of Board of Governors, informed the board March 7 that despite his best efforts to persuade president Mordechai Rozanski to consider standing for a third term, Rozanski has decided he will not seek to continue beyond his second five-year term, which ends Aug. 31, 2003.

Rozanski indicated that he was "honoured by this invitation," but strongly supports the University policy that states a president may normally hold office for no more than two consecutive terms.

"First-class universities benefit from leadership renewal at regular intervals," he said. "Such renewal promotes new thinking and re-

energizes the institution and its stakeholders. I, of course, feel privileged to have served this great university for close to a decade and am proud to have worked with such terrific faculty, staff, students, alumni and board members. Their dedication and talent give me great confidence in Guelph's future."

Appointed in 1993, Rozanski is the University's longest-serving president and a tenured faculty member in the Department of History. Although he is considering various possibilities, his current plan is to take a period of leave after his term ends, then return to teaching and scholarship. In the interim, he will continue to focus actively on the

Continued on page 10

Food Science Professor Wins Steacie Fellowship

National award recognizes outstanding young researchers

PROF. Alejandro Marangoni, Food Science, has received a 2002 E.W.R. Steacie Memorial Fellowship, the most prestigious award given by the Natural Sciences and Engineering Research Council to outstanding young researchers.

Marangoni is one of six Canadians to receive a 2002 fellowship, considered one of Canada's premier science and engineering prizes. He is the first professor to receive the award while at Guelph. Botany professor Derek Bewley received a fellowship in 1979 when he was at the University of Calgary.

The fellowships are named for the late Edgar William Richard Steacie, a physical chemist and former president of the National Research Council, who believed that promising young scientists should be given every opportunity to develop their ideas. Fellowships have been given in his name since 1964 to the most outstanding Canadian university scientists or engineers who have earned their doctorate in the last 12 years. Recipients are relieved of their teaching and administrative duties for two years to concentrate on research.

"I am very happy about the award because it is always gratifying to see



Prof. Alejandro Marangoni

one's work recognized at a national level," says Marangoni. "But this fellowship is also an endorsement of the agricultural sciences, a field that is always pushing the envelope and is starting to gain recognition."

President Mordechai Rozanski says the University is "delighted that Prof. Marangoni has won this prestigious national award. It is testimony to his excellence as a researcher and to the importance of his work. Ultimately, these investments in Guelph's talented people and in our research capacity will pay off in new advances that contribute to our economic, social and environ-

mental quality of life."

In collaboration with researchers at the University of Waterloo and in Switzerland, Malaysia and France, Marangoni will spend the next two years working to modify the physical properties of fats and oils, focusing on milk fat, palm oil and cocoa butter.

His past work has helped establish a new area of study into the micro or nanoscale structure of fats and oils. The practical uses of his work range from making butter spreadable at refrigerator temperature to reducing fat's tendency to deposit in the arteries. "Whatever I do in my lab must somehow, sooner or later, have an application," he says.

Originally from Ecuador, Marangoni adds that his work is influenced by the experience of coming from a poorer country. "There is little room for basic science that doesn't produce tangible benefits."

A faculty member at Guelph since 1991, he has received numerous other awards, including a Premier's Research Excellence Award, a Canada Research Chair and the first-ever Young Scientist Research Award from the American Oil Chemists' Society.

Prestigious NSERC Chair Awarded to Engineering

City of Guelph will serve as living, dynamic design laboratory

THE SCHOOL of Engineering has received a unique and prestigious Chair in Environmental Design Engineering worth some \$2.5 million from the Natural Sciences and Engineering Research Council (NSERC).

Guelph-Wellington MP Brenda Chamberlain made the announcement during a special event at the University Feb. 28 attended by NSERC president Tom Brzustowski. The five-year chair will be held by Prof. Warren Stiver and will involve using the community of Guelph as a living, dynamic design laboratory.

"We'll be looking at how the community of Guelph affects the environment," says Stiver. "We'll be bringing those problems into the classroom, into our labs, where we'll work to develop effective solutions

and ways to implement them."

The goal is to expand and improve Canada's capacity in all aspects of design engineering and unite efforts from various educational institutions, industry, government and the private and public sectors.

"We're delighted and proud that Prof. Stiver has won this prestigious national chair," says president Mordechai Rozanski. "It will bring together the best and brightest in the field of design engineering, uniting them for a common goal — transferring knowledge to improve the quality of people's lives. We are very grateful to Tom Brzustowski and NSERC for this wonderful award."

Brzustowski describes the Guelph initiative as "a dynamic program that truly brings town and

gown together. The University of Guelph has put together a fascinating and highly innovative program that I am sure will inspire similar ventures elsewhere in Canada."

Prof. Alan Wildeman, vice-president (research), says that by definition, design engineering is the process by which raw scientific knowledge is captured, synthesized and encapsulated into useful products and services.

"Design engineers are the enablers of innovation," he says. "The researchers involved in programs launched by this chair will be the people who take an invention and turn it into an economical and safe product that meets all people's needs."

NSERC is funding 16 engineer-

Continued on page 3

Selection Committee for President

Call for Nominations

President Mordechai Rozanski will end his term as president Aug. 31, 2003. Under the University of Guelph Act, Board of Governors has the ultimate responsibility to appoint the president, with the advice of a presidential selection committee. The selection committee is chaired by the B of G chair and composed of two external board members and six members elected by Senate.

Faculty policies require that the following members of a selection committee for president be elected by Senate: three faculty (full-time tenured, from different colleges), two students (one undergraduate, one graduate) and one full-time staff member. Members of the selection committee need not be senators.

This is a call for nominations for the Senate-elected members of the selection committee. Nominations will be considered by the Senate Bylaws and Membership Committee and a slate forwarded to the April 9, 2002, meeting of Senate.

Nomination forms may be obtained from the Senate Office on Level 4 of the University Centre, Ext. 6760. Please note that self-nominations are permitted, but the Bylaws and Membership Committee may give more weight to those nominated by others. Nominations must be returned to the Senate Office no later than noon on March 22.

Questions should be directed to secretary of Senate Irene Birrell at i.birrell@exec.uoguelph.ca or Ext. 6758.

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SENATE REPORT

Higher-Than-Projected Enrolment Boosts Funding Needs

MORE ONTARIANS THAN EVER — and far more than projected in last May's multi-year provincial budget — are seeking entrance to Ontario's universities, creating an urgent need for more government funding to universities to address this increase, president Mordechai Rozanski told the Feb. 26 meeting of Senate.

Enrolment data for 2001/02 indicate that enrolment system-wide was more than double the 4,000 increase

initially projected, Rozanski said. And according to application information recently available from the Ontario Universities' Application Centre, it appears that by 2002/03, system-wide enrolment could be up by some 7,000 more students than the projections used to guide the government's last budget.

"By 2005/06, we could be 20,000 students higher than the original 59,000 projection for that year," the president said.

At U of G, applications to Guelph for 2003 are up by about 24 per cent, and the number of students making Guelph their number one choice is up by 15 per cent.

Some of the factors fuelling this increase are higher population growth, more high school graduates wanting to attend university and, to some extent, the fast-tracking of high school students trying to avoid the fall 2003 application crunch coming with the "double cohort."

Rozanski said the Council of Ontario Universities, which he chairs, has met repeatedly with ministers and deputy ministers to discuss this serious situation. The media are also paying more attention to these and other issues critically important to the future of the province's post-secondary education system.

He said that to accommodate the unanticipated growth, the province's universities will need \$70 million to \$80 million cumulatively through 2003.

"But we are also pressing for \$100 million in each of the next two

years for inflationary costs of utilities and for unfunded students previously enrolled, in an attempt to lower student-faculty ratios."

Universities are also asking for another \$73 million per year for facilities renewal, deferred maintenance and capital projects that will be needed for these additional students, said Rozanski. "Additional resources are essential if Ontario universities are to fulfil public expectations for access and quality."

In the meantime, Guelph is proceeding with existing plans to grow in relation to what the government has already committed to universities in both growth-related and SuperBuild funding, he said.

To that end, U of G has produced a preliminary Ministry of Training, Colleges and Universities budget for 2002/03 (see story on page 8). The University is also proceeding with the construction of its new classroom complex and the revision of the campus master plan.

In other news, the president reported that U of G's campaign activities are progressing well, with a

public launch expected later this spring.

He also noted that the University has taken decisive steps to deal with an inadvertent disposal of pig waste earlier this year and to prevent such incidents in the future by establishing a risk management review and assessment unit with the Office of Research.

DRAFT HUMAN RIGHTS POLICY PRESENTED

Prof. Jill McCutcheon, chair of the Senate Executive Committee, presented for information the "Draft Human Rights at the University of Guelph" document, which incorporates the human rights policy and the procedures for the resolution of human rights discrimination and harassment concerns, disputes and complaints.

McCutcheon reported that the document has been revised and substantially reorganized since the last time Senate discussed it in October 2000. It is now more user-

Continued on page 10

BOARD OF GOVERNORS

Tuition Fee Increase Approved for 2002/2003

A MOTION TO RAISE U of G tuition fees for 2002/2003 was approved by Board of Governors at its March 7 meeting.

Three students — including one representing the Central Student Association and one representing the Student Budgetary Advisory Group — made presentations in opposition to the motion during the meeting. Several board members also spoke on the matter before the vote — in support and reflecting concern.

In response to concerns expressed about the ability of students to cover the rising costs of education at Guelph, board chair Simon Cooper asked Prof. Maureen Mancuso, associate vice-president (academic), to review how well student aid is meeting the needs of U of G students.

Mancuso responded that the Enrolment Co-ordinating Committee has been reviewing this and that she would appreciate the opportunity to

provide a full report on student financial aid to the board.

In other board business, Prof. Rob McLaughlin, vice-president (alumni affairs and development), updated governors on the capital campaign, saying it is proceeding well. A public launch is planned for the spring.

Governors also received for information a number of reports, including a physical resources and property report, the finance com-

mittee report and the executive committee report.

Governors were informed that the University has signed a contract for a new integrated voice/data communications system. This will replace the University's aging telephone switch, which had reached its capacity.

The overhaul — to be completed by 2004/05 — will improve both voice and data communications on campus.

@GUELPH

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A ROYAL AFFAIR

"Let the Good Times Royal" is the theme of U of G's 78th-annual College Royal open house March 16 and 17. The student-run program will feature traditional favourites such as teddy bear surgery, a New (Old) MacDonald's farm and chemistry magic shows, as well as new attractions such as a robotics competition and a "Harry Potter" planting session. The weekend also features campus-wide displays and activities, a lecture series and numerous team competitions. Hours are 9 a.m. to 5 p.m. Saturday and 10 a.m. to 4 p.m. Sunday. For full details, visit the Web site www.collegeroyal.uoguelph.ca.

SECURITY SERVICES NAMES MANAGER OF OPERATIONS

Const. Robin Begin has been appointed manager of operations in Security Services. She will be responsible for the day-to-day supervision of campus police officers, dispatch, fire prevention officers and parking enforcement. Begin joined Security Services as a special constable in 1989 after serving as an officer with the Ontario Provincial Police and a police communicator with the Guelph Police Service.

CEREMONY TO ACKNOWLEDGE CONTRIBUTIONS OF ANIMALS

A ceremony to acknowledge the contributions of animals to education and research will be held March 20 at 12:30 p.m. in Room 107 of the MacKinnon Building. The ceremony will include remarks by Prof. Hank Davis, Psychology, and OVC student Susan Emerson. Participants will then proceed to the memorial stone that honours the contributions of animals, at the south end of Branson Plaza near Zavitz Hall. All members of the University are invited to attend.

DRAMA COLLOQUIUM TO HONOUR THEATRE DIRECTOR

The drama program is hosting a colloquium March 16 to honour the memory of Canadian theatre director George Luscombe. It begins at 1 p.m. at the Inner Stage with a keynote address by *Globe and Mail* columnist Rick Salutin on "Performance and Politics: The Legacy of George Luscombe." This will be followed by a video of Luscombe's convocation address when he received an honorary degree from U of G in 1996 and a panel discussion on "Continuing the Legacy: Performance, Politics and Passion." The celebration will culminate at 4:30 p.m. with the formal renaming of the Inner Stage as the George Luscombe Theatre.

HOCKEY TEAMS COMPETE FOR UNIVERSITY CUP

The top six teams in Canada Interuniversity Sport men's hockey will battle for the University Cup March 21 to 24 at the Kitchener Memorial Auditorium. Guelph games are set for March 22 and 23 at 7 p.m. For tickets, call 1-800-265-6368 or 519-745-0303.

Study to Develop Innovative Environmental Solutions

Continued from page 1



NSERC president Tom Brzustowski, left, and MP Brenda Chamberlain celebrate the announcement of U of G's new engineering chair with Prof. Warren Stiver.

PHOTO BY MARTIN SCHWALBE

ing design chairs across the country, with five of them focusing on environmental design. The 16 chairs, together with a new Canadian Design Engineering Network, will link all engineering schools in Canada to help promote and facilitate design education.

Guelph's Environmental Design Engineering Chair is worth an estimated \$2.5 million once matching provincial and local funds are included. Guelph will be hiring an additional three faculty members to join numerous existing faculty in engineering and other areas across campus. The University will also recruit additional highly skilled and qualified students, Stiver says.

One of the first initiatives will be the development of an Urban Systems Environmental Design Centre,

which will use the city of Guelph as a "case study" to develop innovative ways to address environmental problems. This will include coming up with solutions to minimize air, water and waste impacts from individual sources, and working with industry, institutions and the municipality to implement them.

Stiver says Guelph is ideally suited to be part of this challenge partnership because of its diverse economic base, wide variety of industries and institutions, and residential areas that range from older neighbourhoods to new subdivision developments.

"The city has also demonstrated a willingness to take risks for environmental motives with programs such as the Wet-Dry Recycling Facility," he says.

Chamberlain adds that Guelph is a community that is always willing to invest its best efforts in environmental innovation.

"The federal government fully endorses the partnership between this imaginative new research program and the city and applauds their shared commitment towards a 'green community,'" she says.

Although the chair is a five-year commitment with a renewal option, it's anticipated that the programs launched will be long-lasting, says Stiver.

"There's a lot to be done over the next five years. In the end, the most valuable result will be highly skilled graduates with the capacity to minimize the environmental effects of urban communities."

BY LORI BONA HUNT

What's New on the Web

Classroom complex Web site shows construction work in progress

FINDING INFORMATION about University of Guelph people, programs, projects and plans has become easier with the launch of several new or redesigned Web sites.

On March 11, OVC unveiled a new version of its Web site at www.ovc.uoguelph.ca.

"The new site has been completely redesigned to make it more relevant to users," says Prof. Peter Conlon, OVC's assistant dean, student affairs. Among the improvements are a more intuitive navigation scheme and improved accessibility and efficiency, as well as an updated visual design.

A newly created acronym directory (www.uoguelph.ca/info/acronyms.shtml) provides definitions to more than 180 different acronyms used on campus and will be a valuable

tool for all members of the University community. The Web site will be of particular use to new staff, faculty and students.

On March 5, Physical Resources launched "The Classroom Complex" site at www.uoguelph.ca/superbuild to provide information on this important campus capital project and timely updates on its construction, which began March 1. Scheduled for completion by fall 2003, the complex will be a state-of-the-art facility that will accommodate more than 1,500 students in four main lecture halls.

An interesting feature of the Web site is that a camera has been installed above the construction site and provides a "daily view" of the work as it progresses.

The classroom complex site is

part of the "Toward 2010" series of Web sites, which also includes the newly redesigned campus master plan Web site (www.pr.uoguelph.ca/masterplan). The master plan site documents the development of policies related to physical development and a process for shaping the composition of future buildings and landscapes on campus. As more sites in this series are developed, they will keep the campus community updated on the University's planning — both academic and physical — over the next decade.

Finally, Alumni Affairs and Development recently launched the campus community campaign site (www.uoguelph.ca/campaign). It outlines key fundraising priorities for the campus and allows users to access a pledge form on line.

PEOPLE

GRYPHON WRESTLER EARNS NATIONAL KUDOS

Tara Hedican, a second-year history student who is the reigning Junior World Champion in wrestling, has been named this year's winner of the national Tom Longboat Award, which recognizes aboriginal excellence in sport. She will receive the honour at the Canadian Sports Awards in Toronto this month. This semester, she captured gold in the 63-kilogram weight class and was named Outstanding Female Wrestler at both the provincial and national championships. She also won gold at the Dave Schultz International Memorial Tournament in Colorado Springs.

U OF G STUDENT WINS OLYMPIC SILVER IN AERIALS

Veronica Brenner, an undergraduate student in the human kinetics program, captured a silver medal in women's aerials at the Winter Olympics last month. She trains in Lake Placid, N.Y.

SOCIOLOGIST LEADS SEMINAR, GIVES TALK IN ARGENTINA

Prof. Tony Winslow, Sociology and Anthropology, was invited by the Social and Agrarian Studies Group and Centre of Canadian Studies at the University of Comahue in Neuquen, Argentina, to lead a three-day graduate seminar in November. The theme was "Global Restructuring and Rural Issues: Present Realities and New Possibilities." While in Argentina, he also gave a talk at the School of Economic Studies of the University of Buenos Aires on "Globalization, Agriculture and Food: The Canadian Experience."

IN MEMORIAM

JEAN CLOSE

Jean Close, a retired staff member in Student Housing Services, died Feb. 11 at the age of 72. She was employed at U of G from 1969 to 1994. She is survived by her husband, David; two children, Bill and David; three grandchildren; and one great-granddaughter.

IAN JOHNSTONE

Prof. Ian Johnstone, Biomedical Sciences, died Feb. 25 at London Health Sciences Centre. A three-time graduate of OVC, he earned his DVM in 1966, his M.Sc. in 1972 and his PhD in 1978, at which time he joined the college's faculty. During his career, he taught in both clinical and paraclinical areas of the veterinary program.

His research interests focused on comparative studies on the homeostatic mechanism in domestic animals, and the detection and characterization of inherited and acquired abnormalities in different animal species.

Prof. Johnstone is survived by his wife of 33 years, Carol Ann, and his son, Darryl. A tree will be planted in his memory Sept. 22 in the Wall-Custance Memorial Forest at the Arboretum.

Four Faculty Receive New PREA Support

Funding to date totals more than \$2.8 million

FOUR MORE U of G researchers have received Premier's Research Excellence Awards (PREA) from the Ontario Minister of Energy, Science and Technology. To date, 19 Guelph professors have won the awards, with funding totalling more than \$2.8 million.

Physics professor Carl Svensson, botany professors Barbara Mable and Robert Mullen, and pathobiology professor Dorothee Bienzle will receive \$100,000 each from PREA and \$50,000 in matching funds from the University.

"This support is a tremendous boost to one's research program," Svensson says, adding that the funding will allow him to hire graduate students and post-doctoral fellows to help conduct groundbreaking research on the standard model of particle physics.

"When you're able to establish a critical mass of people working together, fabulous things can happen," he says.

The four Guelph professors were among faculty from five western Ontario universities recognized Feb. 28 at an event in London. It was hosted by Jim Wilson, minister of energy, science and technology, who made the PREA announcement on behalf of Premier Mike Harris.

"Scientific and technological research and innovation are critical to

Ontario's economic future," said Wilson. "The awards contribute to the province's 'brain gain' by providing our younger scientists with the support they need to undertake leading-edge research right here in Ontario."

President Mordechai Rozanski calls the PREA awards "a fabulous investment in some of the University's best and brightest. The awards not only recognize the achievements of these fine researchers, but also provide the promise of great contributions to the expansion of knowledge and discovery."

Prof. Alan Wildeman, vice-president (research), adds that these most recent awards "are a strong addition to the wonderful depth of the basic and applied research that is taking place at U of G."

The new PREA funding will support a diverse range of research at Guelph:

- Svensson will be conducting precision tests of the standard model of particle physics to help guide researchers towards an understanding of the "new physics" that lies beyond it. He will focus on precision nuclear beta decay experiments, which test the most fundamental interactions of subatomic particles. His research concentrates on the strong and weak nuclear forces, with a focus on the strength of the weak

interaction. He says his experiments aim to test for the "cracks in the standard model" leading to a more complete understanding of nature and how the nucleus of an atom works at its most basic level.

- Bienzle will study feline leukemia virus, which results in tumour formation, immunodeficiency or non-specific chronic diseases in cats. Some of the infected cats develop a

"When you're able to establish a critical mass of people working together, fabulous things can happen."

degenerative disease of the spinal cord that results in gradual paralysis. She is interested in identifying how the virus causes damage to nerve cells in the spinal cord and why only some cats develop this specific illness. Studying the disease in cats may yield valuable insights into this common human disease and how other viruses injure the nervous system, she says. Bienzle has also received support from the Canada Foundation for Innovation's (CFI) New Opportunities research program.

- Mable's research will investigate how changes at the molecular level affect processes at the whole organism level. She will research the significance of polyploidy (duplication of entire sets of chromosomes) in the evolution of the mating system. Although its importance in the evolutionary history of plants is unquestionable, polyploidy has often been ignored as a potentially important factor in the evolution of animals, she says. Mable will study the consequences of gene duplication for mate recognition systems, which determine the breeding systems that can lead to genetic diversification within and between species. Like Bienzle, she has received support from CFI's New Opportunities program.

- Mullen will conduct research on plant peroxisome biogenesis. He will be observing how proteins move around and function inside plant cells. Understanding the assembly, differentiation and roles of each cellular organelle is essential before biologists can comprehend the complex integrated functions of cells, he says. Studying the proteins used in certain cellular structures might help medical researchers learn more about how defects in those structures can cause human disease. His research might eventually be used by biotechnology companies in design-

ing effective strategies for genetic engineering of plants with value-added modifications. Mullen also received \$250,000 from the Natural Sciences and Engineering Research Council for a state-of-the-art microscope that allows researchers to examine cells and dynamic processes.

The PREA program was established in 1997 by the provincial government to boost investment in innovative research. It is designed to help gifted young researchers increase the pace of their research by attracting graduate students, post-doctoral fellows or research associates to specific research programs. To date, 378 researchers have received awards totalling more than \$56 million from the province and its research partners.

In addition to U of G's four most recent PREA recipients, five other Guelph professors who received PREAs in 2001 were recognized at the London event. They are food scientist Yoshi Mine, zoologists Beren Robinson and Elizabeth Boulding, biochemist Dev Mangroo and English professor Daniel Fischlin, who is the only arts and humanities professor in Ontario to receive PREA support to date.

BY LORI BONA HUNT

Team Canada Mission Sends Message That Russia Is Important to Us, Says Prof

Wide range of opportunities opening up for Canadians in former Soviet Union

THE FORMER SOVIET UNION offers a wealth of opportunity for Canada, says a U of G political scientist who participated in the Moscow leg of last month's Team Canada 2002 mission to Russia and Germany. Major opportunities have opened up in business, industry, agriculture, education, science and technology that weren't available to Canadians a decade ago, says Prof. Fred Eidlin, a specialist in post-Soviet and Eastern European politics.

Eidlin was invited to join the Team Canada mission because of his longtime involvement with the countries of the former U.S.S.R. In recent years, he has participated in the Canada-Russian Intergovernmental Economic Commission, the Canada-Russia Business Forum and the Canadian Business Association in Russia. He also founded and directs InterUniversity Centre Canada, a private corporation active in study abroad, international development and business support and training related to the U.S.S.R. successor states and Eastern Europe.

While in Moscow, Eidlin signed five contracts related to new projects of InterUniversity Centre Canada. The signing was witnessed by Prime Minister Jean Chrétien, Premier Mike Harris, Russian Prime Minister Mikhail Kasianov and Pierre Pettigrew, Canadian minister of international trade.

"With the Team Canada mission to Moscow, Ottawa is sending a message that relations with Russia, including economic relations, are now of major importance to Canada," says Eidlin. "During the Cold War, Russia and the former U.S.S.R. were not of

great interest to Canada. Canadian foreign policy in recent decades has focused on those countries where we can do business or where we have a moral role to play. The Soviet Union failed to meet either criterion. There was little we wanted to buy from the Russians, and they did not have the hard currency to buy much from us. And during the Soviet era, they certainly weren't interested in our moral role. Now, it's all been turned upside down. Russia has become important for Canada, both from an economic point of view and in terms of our moral role. It's now rising on the Canadian agenda."

Eidlin's own interest in Russia, Ukraine and other former Soviet republics has always been strong. His involvement in the area has increased significantly since the collapse of the Soviet Union and even more since the establishment of InterUniversity Centre Canada, he says.

"I made a conscious decision to work counter trend. Just as universities across Canada were closing down Russian departments and East European studies programs due to declining enrolment, I came to recognize the increasing importance of this part of the world for Canada. I also noticed the growing need for Canadian expertise in new fields not normally seen as related to this part of the world, such as agriculture, education, the hospitality industry, housing, science and technology and information science. The Canadian government has identified several of these areas as being of strategic importance. Several of them also happen to be fields where the University of Guelph has

significant strength."

Because of this potential, he says, he's been disappointed in recent years to see financial constraints taking their toll on U of G's involvement in this part of the world. He notes, for example, that a trial Moscow semester offered in 1993 did not become a regular semester abroad because of limited resources. This prompted him to found InterUniversity Centre Canada in 1994, so he could continue to offer the semester privately.

"I decided it was just too valuable an experience to be allowed to die," he says. "For many students, it's an experience that changes their lives. It's always been a pleasure for me to watch students learning from it. It's been one of the most rewarding aspects of my teaching career."

From those modest beginnings, InterUniversity Centre Canada has grown to incorporate a wide range of educational programs and research opportunities in the former Soviet Union. The contracts Eidlin signed during the Team Canada mission include agreements for a one-month course in English in Moscow on Russian agriculture, an ecological expedition to Siberia, a training seminar in Moscow for entry-level businesses and a new study-abroad program in St. Petersburg.

He also signed a letter of intent with the rector of Moscow State Lomonosov University to develop an inter-faculty system of courses offered in English for both Russian and foreign students.

Eidlin believes the time is right for U of G and other Canadian universities to embrace

the opportunities opening up in the former U.S.S.R.

"That area of the world has been neglected academically because we were cut off from our colleagues there for a long time," he says. "Now there's a huge gap to be filled. There are many opportunities to use our knowledge and skills to help understand what's going on in these countries, and we can make a real contribution. At the same time, we can realize a payback because these are developed countries with much potential. It's also a really good chance for us to be of service to the Canadian government, to generate research funding and to form new partnerships with business and industry. Plus, it's just very educational and fits in well with our institutional goal of internationalism. And it's exciting to see such an important part of European/North American civilization returning to us."

Eidlin says he'd like to see U of G better positioned to tackle both the challenges and opportunities presented by the former Soviet Union and Eastern Europe because the University could meet the needs of these countries in a host of areas. He cites as an example the desperate need for expertise in agriculture, food and tourism, all areas where Guelph has an established reputation and specialized resources and expertise.

"There are far more opportunities in these countries than most people realize," he says.

Eidlin invites anyone with an interest in the former U.S.S.R. to contact him at Ext. 3369 or feidlin@uoguelph.ca.

BY BARBARA CHANCE

the campaign for the University of Guelph

Staff, Faculty and Students Honour Late Colleagues

Auger fund will support students in need

WHEN BOB AUGER, the former U of G associate registrar for enrolment statistics and systems as well as records, was first diagnosed with asbestos-induced cancer in April 1996, his doctors were so upset by the news, the Auger family had to comfort them, recalls Auger's wife, Susanne.

Later, when Auger was in day hospice due to his illness, people at the Guelph facility thought he was a volunteer rather than a patient because of his tireless efforts to help others in hospice care.

"That's the kind of person he was," Susanne says. "He was somebody who really cared about everybody. He was so giving."

And that's exactly how Auger, who died March 28, 2000, from malignant mesothelioma, is remembered by his former colleagues in the Office of Registrarial Services.

"Bob was a special person, and we still miss him," says international admissions co-ordinator Mary Haggarty. "He cared very much about the staff who worked for him; he was always supportive and always willing to go to bat for them."

Peter Landoni, associate registrar (student financial services), adds that "those who knew Bob liked him very much and held him in very high regard."

It's these kinds of memories that recently led a group of Registrarial Services staff to establish the Robert G. Auger Humanitarian Fund, a fund-raising project that has become part of U of G's campus community campaign. The fund is designed to help "the most needy students on campus," Landoni says.

From time to time, and usually toward the end of a semester, some students find themselves without enough money to buy food or textbooks, he explains.

"It's not widespread, but we do see some students in real need. We thought it would be nice to be able to help these students right away."

The fund will enable registrarial staff to hand out food vouchers redeemable at city grocery stores and book vouchers redeemable at the Campus Bookstore, on the spot.

"The fund is such a wonderful idea," says Susanne. "It is so Bob. And a great legacy for Bob's two-year-old granddaughter, Skya."

Landoni says the fund has already received donations, including gifts from people outside the University who knew Auger. He also hopes campus people outside Registrarial Services who were acquainted with Auger during his 18-year career at Guelph will donate to the fund.

Susanne adds that the fund

means the world to her and her family: daughter, Catherine Cameron; son-in-law, Zio Hersch; and son, Rob. She says the fund would also have been particularly meaningful to her husband, who, as a young man, worked three consecutive summers taking down asbestos from boiler rooms at a Kitchener plant — all to pay for his university studies.

"Bob lived every day with love, and his spirit will live on through this fund," she says.

In addition to remembering Auger, campus community members are honouring the memories of other former University employees.

Physical Resources staff have created the David Hellewell Fund in remembrance of David Hellewell, who worked at U of G for more than 25 years — most recently in the Grounds Department — before his unexpected death from an aneurysm in November.

Grounds manager John Reinhart says both Physical Resources and Grounds staff wanted to remember Hellewell, a colleague and friend to many. As part of the campus community campaign, staff are now raising funds to create a tribute to his memory.

Members of the School of Literatures and Performance Studies in English have identified the Betty King Memorial Graduate Scholarship as one of their community campaign fund-raising projects. The scholarship was established in 1998 by graduate students in memory of Betty King, a graduate secretary who died of cancer that summer.

"Betty was really dedicated to her job, she was really good at what she did and she really liked students," says Jennifer Hewitt, who graduated with an MA the year King died and was among those who initiated the fund. "So many people remember her fondly."

Several other campus departments have chosen to contribute to the campus community campaign by providing support for students while honouring people with ties to the department. These include a scholarship named for retired geography professor Fred Dahms; the Marion McKenzie Prizes for Outstanding Achievement in History; the Ralph and Edith Kidd Memorial Scholarship in Music, named for the first chair of the music department and his wife; a graduate scholarship prize in fine art named for University professor emerita Margaret Priest; a scholarship named for retired political science professor Fred Vaughan; and a fund named for retired consumer studies professor Richard Vosburgh.

BY SUZANNE SOTO

Restaurant Renovations Will Cater to Growing Enrolment

Facility is critical teaching aid for hotel and food administration students

THE SCHOOL of Hotel and Food Administration Restaurant will undergo a roughly \$2.5-million expansion designed to cater to anticipated enrolment increases as more students plan on careers in the growing hospitality and tourism industry, says Prof. John Walsh, director of the school.

"All indicators are that in the hospitality and tourism industry, managerial employment is going to go up," he says.

The school will also need to ensure ample space to accommodate more students as the expected "double cohort" hits Ontario universities, he adds.

The school plans to expand the teaching kitchen and build a two-storey dining atrium, with a new restaurant entrance closer to the front entrance of the school itself. Construction will begin this summer and is expected to be completed by September 2003. During the renovations, the restaurant will likely be relocated somewhere else on campus, Walsh says.

The school hopes to raise the needed funds for the project, including an endowment to pay for ongoing renovation expenses, in U of G's upcoming capital campaign. Walsh adds that during the current campus community campaign, many of the school's own faculty, staff and students are showing their commitment to the future by making the renovations their designated project for donations.

The renovations will effectively double the size of the teaching kitchen by expanding into the space now occupied by the dining room. A new dining atrium will occupy most of an open courtyard beyond the corridor outside the existing restaurant. That corridor will become a serving area connecting the new atrium with the kitchen. The existing entry to the restaurant wing of the building will be closed.

Technically called the Food Service Laboratory, the restaurant is a teaching facility for students in the third-year course "Foodservice Operations Management" and the fourth-year course "Restaurant Operations."

Led by Prof. Jeff Stewart, the facility offers hands-on experience in



Prof. Jeff Stewart, centre, looks on as students Lou Thom and Mark Adelson prep for dinner at the School of Hotel and Food Administration Restaurant. PHOTO BY MARTIN SCHWALBE

managing a restaurant. Student teams are responsible for all the activities involved in running an upscale restaurant for a day, including menu planning, budgeting, purchasing, marketing, cooking, serving and cleanup.

With 24 students working on each team, the facility currently can accommodate only about 240 students a year, far less than the expected demand over the next few years. Stewart says the expansion will allow him to accommodate 350 to 400 students each year.

The restaurant, which has seen only modest alterations in its 22-year history, is open for lunch four days a week and dinner on Wednesdays during the fall and winter semesters. The renovations will increase seating capacity in the dining room from about 50 to 85. The restaurant normally serves about 70 people for lunch and 50 for dinner.

The renovations will also see the kitchen expanded and reconfigured

to reflect modern food preparation practices. Stewart plans to buy state-of-the-art equipment, including a blast chiller freezer to ensure food freshness and safety, and a combination convection oven and steamer. He also hopes to buy a more sophisticated point-of-sale system.

Although the school will be relying on sizable corporate and individual donors for most of the requisite fund-raising, Stewart says faculty, staff and students are playing an important role through promotions and pledges. He also hopes to raise about \$2,500 through patron tips this year (about \$1,800 has already been collected).

Walsh says the restaurant is a critical teaching facility for students in the program, as well as for other programs on campus, notably applied nutrition. "Without it, it would be like trying to run a science degree but saying we won't have any labs. It's just that central."

BY ANDREW VOWLES

WANT FREE PARKING FOR A YEAR ON CAMPUS?

Make your donation to the campus community campaign before midnight March 15 and you will be eligible to win free parking on campus for a year.*

If you haven't received a pledge form from your department volunteer, please call Ext. 6506.

**Draw criteria and campaign information can be found at www.uoguelph.ca/campaign/community.*

LET ME TELL YOU A STORY

*"You are never so wonderfully alone as when you're alone with a book,
when the whole world around you grows silent"*

BY BARRY CALLAGHAN

Editor's note: At winter convocation Feb. 21, author Barry Callaghan, an English professor at York University, was awarded an honorary doctorate of letters and addressed students graduating from the College of Arts, the College of Physical and Engineering Science and the Faculty of Environmental Sciences. The following is the text of his convocation address.

I WANT TO SAY JUST A FEW WORDS as a writer to you as young people going out into the vast, sometimes dark, world. I am a storyteller, and as a storyteller, my interest in you is, of course, an interest in your private world, the world of your inner eye, the world where your dreams are when you are alone. You are never so wonderfully alone — and I'm sure this has happened to you, I hope this has happened to you — as when you're alone with a book, when the whole world around you — the outside world — grows silent. And there is a voice that is so secret it can't be heard, just felt, whispering to you and leading you deep into the world of the greatest power, your own imagination.

This is a miracle.

And it is not just language spoken but being able to read a language that makes the miracle.

When you read, you agree to let another man or woman, the writer, reach into your imagination, reach in and create a story. I thought I might, this morning, reach into your imaginations and tell you a story that is about the secret of that silent voice, language, and the wonder of how language lights the dark.

This is a true story.

It's a story you probably don't know, but it's a story set in your country at a time when furs, beaver skins, were the business of this country. This huge country. In the 1840s.

Try to see the country in your mind's eye. Miles upon thousands of empty miles, with only tribes pocketed here and there along dark lakes and rivers. I'm talking about a great dark territory — from Lake Couchiching to Nipissing to James Bay to Athabasca and Great Slave Lake — a wilderness almost too great, too unknowable, to be beld in your mind's eye.

But incredibly, at the time, there was a man who not only held this vastness in his eye, but he also held it as his own corporate world, as governor — George Simpson — governor of the Hudson's Bay Company, whose job it was each year to move thousands upon a hundred thousand beaver pelts out of the farthest reaches of that darkness, and to move them on time, according to tundra and stone shield river schedules, by putting Indians with their cargo canoes to work. He created a great mercantile network, funnelling furs into the country's counting houses and shipping depots so that all of Europe could wear a beaver hat.

In this wilderness world, which Margaret Atwood has described as "an ordered absence," he filled the absence. He was the order.

And wherever there is the order of the counting house, there is also the order of the chapel, one complementing the other, one endorsing the conventional wisdom of the other.

There were chapels and small churches out there in the great empire of darkness, and missionary preachers preached to the Indians, holding the Book, the revealed Word, aloft.

That was well and good, but there was a terrible irony at work.

The Indians, most of whom were Cree, had never had a written language. They couldn't read. They had their histories, their beliefs, but they had been passed orally from generation to generation. The world of writing, the wonder of reading, that was their great absence, their great darkness.



Then, in 1840, a Methodist minister — James Evans — came to Governor Simpson's centre of power, Norway House, north of what is now Winnipeg. He thought each man, each woman, should read the Book, the language of the revealed Word, and interpret that language for himself and come out of the darkness himself. This was fundamental to Evans's belief, to his Protestantism.

But there he was, preaching to people — to the great canoeists — who couldn't read. This was fine for Governor Simpson. It suited his ordering of the vast darkness. It was not fine for Evans. And he did an astonishing thing.

*"I know it is the conventional wisdom,
the order of received opinion, that your
history is dull, devoid of good — let alone
great — stories. But you are not dull
and neither is your history."*

He found that the basic sounds, the basic syllables, of Cree could be signed by nine symbols — signs such as a lower case b or a triangle — easily recognizable signs, and then he found that by rotating the nine symbols, four additional sounds could be conveyed. This language system — which, if you've ever picked up a piece of Inuit sculpture and read the incised artist's signature in the stone, you've seen — men and woman and children could learn in one week.

The Indians — because Evans cut the symbols into birch bark — called him the man who made the trees talk.

With all his energy, he spread this written talk deep into the dark forests. He knew, with all the confidence in the world, what

he was doing and had a canoe made for himself out of tin, and he went down the dark waters capturing all the light of the sun.

By 1841, he had printed a book of hymns in Cree, the first book printed in Western Canada. He had done — because language is the gift of fire that lights up the imagination — what had not been done by any person I know of in the world. He had created a new written language.

He had brought wonder to the darkness. He had brought the imaginative freedom that is inherent in the written word. The light of private enlightenment.

And no one knew better than Governor Simpson what this meant. Not only Evans — citing the Book — opposed work on the Sabbath, but now the Indians did, too.

Simpson wanted Evans out of the empire. And within a couple of months, Evans was charged with sexually molesting several Indian girls. More conventional clergymen, happy to keep their flock in the working dark, co-operated with the prosecution.

Eventually, the girls confessed that Evans had been framed, that they had been forced to lie. But the sully damage had been done.

Evans quit the wilderness and went to London to try to clear his name. In 1846, he slumped in his chair, dead from a massive heart attack.

Now, why have I told you this story?

Well, it is a good story.

And also because it is your history.

I know it is the conventional wisdom, the order of received opinion, that your history is dull, devoid of good — let alone great — stories. But you are not dull and neither is your history. Still, conventional people who govern the order of things accept the received opinion: dull.

Which reminds me that when I was your age, I read the great American critic H.L. Mencken, and he had a definition for mediocrity. He said mediocrity is the ready acceptance of received opinion.

You, as we all are, have been bombarded by received opinion. People telling people what other people have already told people. It's called the information explosion. It's called the national news. Oftentimes, it's called scholarship.

But as a writer, rather than accept received opinion, I have had to trust my own eyes, my own ears, so that I could do what Matthew Arnold said the writer and the critic has to do, that is, try to see the thing for what it is in and of itself.

That's hard to do. Hard for the writer. Hard for you.

But seeing things for themselves, that is the way you preserve your private intimate world, that's how you feed your inner eye, that's how the whisper of the voice that cannot be heard but is felt in the language comes to you.

And so, my wish for you today, as you go out into the vast world that is often dark, is that in years to come, when you are in your own public world, on an afternoon when you're with your neighbours or business associates or your own family, and you discover that you are all saying the same thing and feeling comfortable because you're all saying the same thing, you will suddenly say to yourself: "Wait a minute! Is this public acceptance, this ready acceptance of the conventional wisdom, where my heart really is? Is this really the way I see things?" And trusting your own eye, you will remember the words of that man of letters, Mencken, and you will not only reject the ready acceptance of received opinion and affirm the dream of the private world, affirm who you are, but you will also then say to your friends: "You know, there's this story I want to tell you. It's the story of a man who went out in the land of great darkness and he created a new way of seeing things, he created light, created a new language. And you know what, he's one of us."

TOWARD 2010

New Faculty Bring Diverse Interests to U of G

THIS IS PART of a continuing series of profiles on the more than 50 faculty members who have joined the University of Guelph over the past year.

HEINZ BAUSCHKE

Assistant professor, Mathematics and Statistics

Background: Diplom-Mathematiker (mit Auszeichnung), Goethe University, Germany; PhD (mathematics), Simon Fraser University.

Teaching objectives: To develop students' analytical and problem-solving skills and to transmit my enthusiasm for the beauty and usefulness of mathematics to them.

Research objectives: To understand, analyse and extend various algorithms in mathematics and the physical sciences within a unifying geometrical framework.

Attraction to U of G: The reputation of the University and the Department of Mathematics and Statistics, the proximity to other research groups in southwestern Ontario and the beautiful city.

JULIE DIONNE

Assistant professor, turfgrass management, Plant Agriculture

Background: PhD (plant science), Laval University

Teaching objectives: To provide horticultural students with comprehensive and up-to-date information on the culture and management of turfgrass. To be part of a multidisciplinary teaching team involved in the development of a turf option/major in horticulture at the University of Guelph.

Research objectives: Interests include physiology of turfgrass species in relation to environmental stress tolerance; winter protection of

golf greens; biology and physiology of annual bluegrass; and integrated pest management in urban landscapes and golf courses.

Attraction to U of G: The reputation of the University, the Guelph Turfgrass Institute's facilities and the opportunities for research and teaching.

food safety and quality, and development studies with a particular focus on developing countries and trade in agricultural and food products. I hope to develop new courses in both these areas.

Research objectives: To develop a research program in the economics of food safety and quality, and food

RAY LU

Assistant professor, Molecular Biology and Genetics

Background: PhD, University of Saskatchewan

Teaching objectives: To provide students with basic concepts and principles in molecular genetics and

ROGER MOOREHEAD

Assistant professor, Biomedical Sciences

Background: B.Sc. and PhD, McMaster University

Teaching objectives: To provide students with the fundamentals of biochemistry, endocrinology, receptors and signal transduction, so they can integrate these fields with other areas of physiology.

Research objectives: To understand the molecular events whereby a family of growth factors termed the insulin-like growth factors regulates development and tumorigenesis in the breast and lung.

Attraction to U of G: The diverse nature of the research projects and the proximity to other universities and research institutes.

HENRY THILLE

Assistant professor, Economics

Background: B.Comm., University of Saskatchewan; MA and PhD, University of British Columbia

Teaching objectives: To help economics students understand and apply consistent principles to the analysis of decision-making by economic agents, principally in the fields of industrial organization and natural resource economics.

Research objectives: Current projects include an examination of the effects of imperfect competition on the level and volatility of prices in commodity markets; the evolution of market structure in the early Canadian petroleum industry; and the relationship between spot and futures prices in markets for storable commodities.

Attraction to U of G: Quality of the Economics Department and the level of research support.



Heinz Bauschke



Julie Dionne



Spencer Henson



Ray Lu



Roger Moorehead



Henry Thille

SPENCER HENSON

Associate professor, Agricultural Economics and Business and Consumer Studies

Background: B.Sc. and PhD, University of Reading, U.K.

Teaching objectives: The main innovations I can bring to teaching at Guelph are in the economics of

marketing in both developed and developing countries.

Attraction to U of G: Guelph has an excellent reputation for agricultural economics and consumer science in Europe. In looking to widen my experience outside Europe, Guelph was an obvious place to further my career.

the ability of self-learning, and to help them translate the acquired knowledge into applicable skills.

Research objectives: My work centres on gene regulatory mechanisms in human cells during viral infection and other stress responses.

Attraction to U of G: The excellent environment for research and teaching.

Canadian Publishing Feels Impact of Free Trade

Collection of essays explores country's literature and literary institutions

PROF. Stephen Henighan, Languages and Literatures, calls it as he sees it in his new book, *When Words Deny the World*, a collection of essays about Canadian literature and literary institutions. And what he sees, contrary to most commentators, is that free trade and globalization are having a significant influence on Canadian writing and publishing.

Henighan, who will officially launch the book at the Bookshelf Café March 23 at 4 p.m., believes that argument will be met with "extreme hostility" by Canada's literary world. His assessment is based on previous experience as a critic, as well as the initial reaction he's received since an advance excerpt from the book appeared in the March issue of *Quill & Quire*.

"We talk about the impact of free trade and globalization on every other aspect of society," he says, "but literature is seen as something that just emerges from the creative ether above the heads of writers. The Canadian publishing industry has been restructured just as much as anything else, and that's reflected in the stories told."

In his new book, Henighan cites novels such as Michael Ondaatje's *The English Patient*, Anne Michaels's *Fugitive Pieces* and Carol Shields's *The Stone Diaries* as expressions of a free trade culture.

"As in every other aspect of life, free trade has produced a sort of upper tier of literature tailored to the global market," he says. "That isn't so good for other works that don't fit into the global market."

As a result, "less attention is paid to mainstream Canadian culture. There are very, very few Canadian contemporary novels that deal with life in our major cities. Canadian literature is either set in the past, in the Maritimes—romantic Cape Breton or romantic Newfoundland—or in Greece or Italy during the Second World War."

"Canada is either marketed to the world as a sort of theme park or Canadian writers concentrate on in-

ternational themes. Very little attention is paid to the Canadian present. For me, that's one of the main impacts of globalization. Today, there are no Toronto writers writing about Toronto. Cities such as Vancouver and Montreal are not producing writers who write about those cities as such."

Henighan's comments on the state of Canadian literature also range from analysis of best-seller lists to the Giller Prize, from "voice appropriation" to Toronto-centrism, from Americanization to the literary languages of the Americas.

He remains unfazed by the reaction his opinions provoke.

"If certain things are in front of your eyes as a writer, you have a duty to point them out and not fudge it. People have to deal with that. I think it would be dishonest not to present things as I see them."

Henighan is the author of four books of fiction, including the novel *The Places Where Names Vanish* and the short-story collection *North of Tourism*. His literary journalism has appeared in *The Times Literary Supplement*, the *Globe and Mail*, the *Montreal Gazette*, the *Ottawa Citizen* and many other publications.

When Words Deny the World is published by The Porcupine's Quill in Erin.

BY STACEY CURRY GUNN

Preliminary Budget Planning Assumptions Presented at Senate, Board of Governors

University does not want to deviate from its plans to invest in quality and accessibility

U OF G HAS BEGUN laying the foundation for what will eventually be the 2002/03 preliminary Ministry of Training, Colleges and Universities (MTCU) budget.

John Miles, assistant vice-president (finance), outlined the University's preliminary financial planning assumptions at the Feb. 26 meeting of Senate and the March 7 meeting of Board of Governors.

At Senate, president Mordechai Rozanski introduced Miles's presentation by saying this is not the University's MTCU operating budget, which will follow later. Instead, these are initial budget scenarios. In formulating the assumptions, however, the University does not want to deviate from its plans to grow, and neither does it want to stop investing in quality, accessibility and the hiring of new faculty and staff, he said.

"We need to invest in new faculty and staff, support teaching and the library and provide for student financial assistance. These elements are key."

But he added that the University also has to contend with several challenges: the repayment of a deficit

created in the early 1990s as a result of government funding cuts; the ongoing reduction of its structural (base) deficit, caused by expenditures and inflation; and the uncertainties of government operating grants, which have yet to be flowed. The latter challenge is compounded by larger-than-expected projections of student enrolment related to the "double cohort." Although U of G is sticking to its original intake plan for the Guelph campus, the increased demand for university attendance is causing a shortfall in the three-year provincial budget allocated to Ontario universities last May.

At Senate, Miles reported that as a starting point, the University's base budget for 2002/03 assumes \$209.6 million in funding from operating grants, tuition fees, other grants and revenues and cost recoveries. On the expenditure side, it expects to pay out \$217.4 million in base personnel costs, operating costs, utilities, student assistance and deficit repayment, resulting in a \$7.8-million base deficit.

Adding to this deficit are expected 2002/03 increases to the cost of providing salaries and benefits to faculty and staff. These are projected to total \$6.7 million. Utilities and insurance costs will also rise, by as much as 25 per cent in some cases, adding \$1.725 million.

The University's planned investments in quality and accessibility will add another \$4.1 million to the figure. These investments include funding for academic and staff support, faculty hiring, library acquisitions, student financial assistance

and preventive maintenance to the University's physical plant.

When all these numbers are tallied — and before solutions are found — the University's budget shortfall stands at just over \$20 million, Miles said.

On the solutions side, the University expects to realize \$5.35 million in revenue from increased student enrolment and a tuition fee increase (see Board of Governors report on page 2); \$8.6 million in expected resignation and retirement savings, cost recoveries from ancillary operations, employer pension contribution savings, and interest and overhead revenues; and an expected \$2.9 million from an increase in its provincial operating grant related to enrolment growth and good results in the performance grant.

The solutions add up to \$16.85 million, leaving the University with a \$3.475-million shortfall so far.

"This is the highest number we've ever gone in with," Miles said, adding that to find the needed \$3.475 million to close the gap, the University still needs to do more work, as well as monitor what happens over the next few months in terms of provincial operating grants, enrolment numbers, the cost of utilities and year-end results. "If we can't do any of that, we'll be looking at a tough situation."

Rozanski added that other Ontario universities are cutting their budgets by three or four per cent, something U of G hopes to avoid. "We will keep to our investment approach until forced to change," he said.

NSERC Supports Projects for Youth

Tomatosphere, engineering initiatives funded

TWO U OF G PROJECTS that provide elementary and secondary school students with learning opportunities in science and engineering received support last week from the Natural Sciences and Engineering Research Council (NSERC).

NSERC awarded the Department of Plant Agriculture's Tomatosphere II project \$71,100 for its next development phase. The program will involve elementary and high school students conducting experiments on tomato seeds that have been on board the International Space Station for four to six months. In addition, the Engineering project Engineering-LIVE! received \$10,600 to develop interactive travelling classroom activities.

The funding was provided by NSERC's PromoScience program, which helps organizations that give young Canadians opportunities to increase their scientific knowledge and encourage them to consider careers in science and technology.

"These grants will help build a more innovative Canada, resulting in jobs and growth and a higher quality of life for all Canadians," Industry Minister Allan Rock says. Adds NSERC president Tom Brzustowski: "By awarding these grants, we are making a sound investment in Canada's youth."

The Tomatosphere II project, headed by Prof. Mike Dixon, will have students germinating and growing seeds that orbited the Earth with Canadian and American astronauts. The NSERC funding will allow the project to double in size, with nearly 500,000 seeds scheduled to go into outer space in the fall of

2003 and more than 6,000 students across the country conducting experiments. The students are studying seeds that were in orbit under microgravity conditions and seeds that stayed on Earth to compare germination and seedling vigour.

Half the seeds that go into orbit and half of those that don't are exposed to a special treatment that uses red and infrared light to stimulate growth. Researchers are trying to determine if the red-light treatment has any influence on seeds that are exposed to microgravity and cosmic radiation in space.

Tomatosphere II is a joint project of U of G, Heinz Canada and Heinz World Headquarters (United States). It is also sponsored by Agriculture and Agri-Food Canada, the Centre for Research in Earth and Space Technology, Ontario Agri-Food Education Inc., the Canadian Space Agency and the Canadian Space Resource Centre.


Engineering-LIVE! builds on current School of Engineering activities that give students a direct link and access to engineering in the classroom setting. The goal is to improve the understanding of engineering as a profession and promote careers in the field.

The NSERC funding will be used for program development, including interactive, module-based classroom sessions designed to supplement high school curriculum. The program will demonstrate the connections among secondary school science, mathematics and engineering. Plans also call for matching secondary school students with an engineering student for a day.

BY LORI BONA HUNT

Correction

IN THE FEB. 27 ISSUE of *@Guelph*, it was incorrectly reported that Maple Syrup Days at the Arboretum would be part of the College Royal program this weekend. In fact, Maple Syrup Days are no longer being held.



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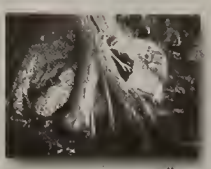
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Community Hears Ideas on Campus Master Plan

Town hall meeting presents working paper's initial suggestions

U of G's vehicle services facility should move out of the campus core, a new campus master plan should include ecological policies reflecting the University's environmental focus, and guidelines to limit the maximum height of buildings should be considered.

These were just some of the ideas put forward at a second town hall meeting to discuss initial suggestions for the future physical development of the campus — all part of a current review of U of G's master plan.

About 100 faculty, staff and students brought their questions, comments and concerns to the Feb. 28 presentation. Bob Allsopp, a partner with du Toit Allsopp Hillier, the consultants hired by the University to help review and rewrite its master plan, outlined more than two dozen "planning explorations" contained in a recently released 100-page working paper (which is on the Web at www.pr.uoguelph.ca/masterplan.)

The explorations are based on extensive consultations with both the campus community and the city, as well as a review of historical information. Relying on this data and on guidance from the Campus Master Plan Steering Committee, the study team has developed 45 key planning principles. These address eight main groups of issues: campus structure and character; a split campus; entry and orientation; walkways; campus roadways; parking; student and communal space; and building and landscape priority locations.

Allsopp said the U of G community highly values and wants to preserve the basic character of the campus. As such, some suggestions are to expand Branson Plaza as a large "town square or outdoor room," to redevelop Johnston Green's northern roadway into a formal pedestrian avenue to further reinforce the green's identity, and to reinforce the primary pedestrian cross-axis of Winegard and Reynolds walks by adding new buildings and removing vehicular roadways where possible.

Many on campus believe Gordon Street, a busy city arterial, splits the

campus in two, Allsopp added, noting that the city intends to retain Gordon as an important access into the city and the University. The working paper suggests working with the city to transform Gordon into a more attractive street with generous walkways, landscape treatment and pavement patterns to reinforce crossing points — all to unite the east and west sides of U of G.

To create a better sense of entry into — and orientation within — the campus, the working paper suggests creating a more distinctive campus character along Gordon between College Avenue and Stone Road through better use of landscape, with the possibility of a more formal entrance at the intersection of Gordon and South Ring Road.

Walkways, particularly the brick ones, are prized on campus, said Allsopp. Because of that, he suggested the brick be maintained despite potentially higher costs compared with some other materials. Establishing a comprehensive and legible pedestrian system that clearly differentiates between pedestrian and vehicular routes and favours pedestrians was also suggested.

In terms of campus roadways, the paper suggests taming the ring roads by narrowing their apparent width by reducing the roads to one lane each way, with parking on one side of the road and bike lanes on both sides, as well as adding sidewalks.

Other suggestions include reducing the number of roads in the campus core, establishing a clearer, more continuous road network west of Gordon, and making Trent and Powerhouse lanes more pedestrian-friendly.

Regarding parking, an often-raised campus issue, the study has shown that there is more than enough parking to accommodate all cars that park here, but that the location of some parking areas is a concern. The suggestions are to expand parking in some existing lots, redesign other lots where parking space is used inefficiently and improve the walkways that link the more remote parking lots to the core.

Allsopp said the issue of adequate student space, lounges and meeting areas is a concern on campus. Two ways of addressing this issue would be to expand the University Centre to the south and reassign space in other buildings — for example, Zavitz Hall or the Bullring — as student-dedicated space. New academic buildings could also be organized so that study, communal and classroom functions heavily used by students are on the main floors. The future science complex, meanwhile, will probably add much-needed student space once it's built.

On the subject of building and landscape priority locations, the paper's suggestions include maintaining the principle that the University's academic buildings are within a 10-minute-diameter walking circle to enable students to change classes in the 10-minute break between them.

Allsopp encouraged people to visit the campus master plan Web site and submit further input and views on the above suggestions through an interactive response form found on the site. Input is being requested by March 15.

The consultants will produce a draft plan in early April and a final plan by June. Working with the consultants have been Chris Pickard, director of planning, engineering and construction, and Prof. Jim Taylor, Landscape Architecture, seconded to act as plan co-ordinator. A steering committee chaired by Board of Governors member Mary-Elizabeth Flynn and consisting of faculty, senior administration, staff and students, is overseeing the review process.



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Subjects Sought for Study on Violence and Relationships

Researchers looking for women who have been out of an abusive relationship for at least two years

A U OF G PROFESSOR and graduate student want to learn how women leave violent relationships.

Prof. Judith Myers Avis and master's candidate Julia Dunlop of the Department of Family Relations and Applied Nutrition hope to interview 10 to 15 women in the Guelph, Kitchener-Waterloo and Cambridge area for their study. All interviews will be conducted in a neutral location and will be confidential.

The pair are looking for women who have been out of an abusive relationship for at least two years.

"This is so they've had time to reflect on their experiences," Dunlop says. Adds Myers Avis: "Statistics show that most women tend to leave an abusive relationship many times before they finally leave for good. We want to find out what helps them take that final step."

Myers Avis says that as therapists, she and Dunlop are interested in learning whether women who leave have sought help from a therapist, women's shelter or other service and if the resources were helpful.

"And if they didn't receive any help, we want to find out what types of services might have been useful to them in their decision-making process."

Women don't necessarily have to have left the relationship to qualify for the study, adds Dunlop, but they must have made a decision to no longer live with violence.

"Typically, there is something — a final straw — that contributes to their taking action, whether that ac-

tion is leaving or seeking counseling," she says. "But there is usually a turning point when the decision is made."

Dunlop came up with the idea for the study while working in a women's shelter. "I saw so many different women, and they all had so many reasons for not leaving their relationships: love for their partner, fear, loyalty, children, the hope that things would change and often feeling responsible for the abuse."

She adds that staying in a violent relationship often becomes a survival skill. "The violence often increases after a woman leaves, sometimes to the point of lethality, so she often stays to prevent things from getting worse. It is very complex."

Although the reasons for getting into a violent relationship — and staying — are complicated, the pair say the statistics are clear. Nationwide, some 29 per cent of married or common-law wives have been subjected to physical or sexual abuse by their partners at some point in the relationship. About 40 per cent of violent relationships involve children who have been exposed to physical or sexual violence.

"This is an issue of tremendous proportions and concern in our country," Myers Avis says.

A confidential toll-free telephone number has been arranged for study participants. For more information, call Dunlop at 658-8962 or toll-free at 1-866-399-6399.

BY LORI BONA HUNT

SENATE REPORT

Continued from page 2

friendly and has been re-ordered to place proper emphasis on matters such as the concepts of presumption of innocence, bad-faith complaints and reprisals, she said.

Prof. Alastair Summerlee, provost and vice-president (academic), commended Patrick Case, director of the Human Rights and Equity Office, for his hard work on the policy.

"This is an incredible step forward for the University and one we should be proud of," Summerlee said.

FANSHAW ARTICULATION AGREEMENT GETS NOD

Senate approved a motion by Prof. Terry Gillespie, chair of the Board of Undergraduate Studies, to

accept a proposed articulation agreement between Fanshawe College in London and U of G's Faculty of Environmental Sciences.

The agreement will principally enable qualified graduates of Fanshawe's environmental technology and science laboratory technology programs to enter U of G's bachelor of science (environmental sciences) program.

REVISED POLICY APPROVED

Senate also approved a revised policy on centres and institutes proposed by the Senate Committee on University Planning (SCUP). The policy is intended to be flexible enough to deal with a wide range of centres and institutes and the way

they are funded, both internally and externally.

SCUP chair Prof. Chris McKenna added that his group had reviewed the Enrolment Coordinating Committee's (ECC) tuition recommendations for 2002/03, as well as a dissenting report from the two student members of EEC.

He said SCUP was supportive of the tuition fee recommendations, particularly the decision to recommend different percentages of fee increases for undergraduate and graduate students, recognizing the need to remain competitive with other Ontario universities at the graduate level; and the decision to keep fee increases for international students low.

Presidential Search Begins

Continued from page 1

University's priority areas. These include advocating for increased public investment in universities, planning for student enrolment growth through the renewal of faculty and staff and facilities, and completing the capital campaign. He will also continue his work as chair of the Council of Ontario Universities.

Cooper told the board he is greatly disappointed that Rozanski has decided not to seek a third term, but expressed appreciation for the president's exemplary leadership and many achievements. Cooper praised Rozanski for "the overall impressive enhancement of the quality and reputational standing of our university during challenging times" and indicated there would be other

opportunities to more fully recognize the president's contributions.

As a result of Rozanski's decision, and in accordance with established policies and procedures, Cooper has initiated the establishment of a presidential selection committee to conduct a search and make a recom-

mendation to the board, which is ultimately responsible for appointing a president under the University of Guelph Act. Cooper has asked that the process of striking a selection committee begin immediately to ensure that a successor will be in place by the late summer of 2003.

@GUELPH PUBLICATION SCHEDULE

Publication Date	Deadline	Publication Date	Deadline
March 27	March 19	May 22	May 14
April 10	April 2	June 5	May 28
April 24	April 16	June 19	June 11
May 8	April 30	Summer	TBA

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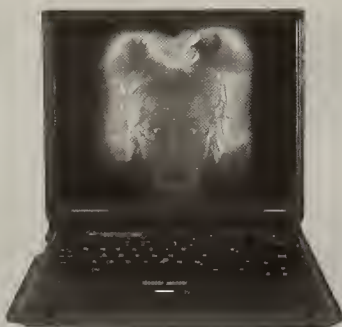
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Westinghouse frost-free refrigerator and self-cleaning stove, almond, Ext. 2840 or 767-6536.

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1999 Acura 1.6 EL, four-door, five-speed, CD, air, security, remote, cruise, 50,000 kilometres, handles well in winter, Ext. 5014.

Apartment-sized washing machine, send e-mail to stwallac@uoguelph.ca.

Three-bedroom condo/townhouse, 2,000 square feet, 2½ baths, two fireplaces, central air and vac, workshop, gas heat, garage parking for three cars, backs on to greenbelt and river, many upgrades, minutes to downtown and campus, 824-0067.

Gianini six-string acoustic guitar, excellent condition; Rayner five-string banjo with solid-side case, laminate neck and mahogany resonator, good condition; 300 LPs from 1970 to 1990, rock, soft rock, jazz and blues; Dual CS-515 turntable with new cartridge, 846-9458.

Large washer and gas dryer, white, Ext. 4736.

Dragon NaturallySpeaking speech recognition system, Marilyn, Ext. 3868.

General Electric colour television, 25-inch, 1½ years old, price negotiable, Jay, 780-1219.

Four-bedroom home on half-acre landscaped lot, three baths, family room, sunroom, finished rec room, two minutes north of Guelph, 821-1493.

FOR RENT

Three-bedroom townhouse to sublet in quiet neighbourhood, three bathrooms, appliances, parking, on bus route, short walking distance to campus, available now until Dec. 31 with possibility of extension, \$1,189 a month inclusive, Ext. 3176 mornings or 821-3092 evenings.

Two-bedroom bungalow in north end, half-acre lot, suitable for working couple or small family, wood-burning fireplace, rec room, available immediately, \$1,100 a month plus utilities, 831-5135.

Furnished two-bedroom holiday home in Antibes, France, available weekly or monthly; furnished one-bedroom apartment in southwest Paris, walking distance to subway and shops, Nicole, 836-6745 or fmoll@webtv.net.

Two bedrooms in three-bedroom house, laundry, large backyard, on bus route, parking for one car, available May 1, \$385 a month plus utilities, Laura, 826-9794 or laurakmler13@hotmail.com.

Large bedroom in two-bedroom apartment downtown to share with mature student and cat, street parking, close to bus stop, female preferred, available immediately, \$350 a month plus hydro, Janneke, 822-5443 or send e-mail to janneke@sympatico.ca.

Furnished room with private bath, laundry, 15-minute walk to campus, close to Stone Road Mall and bus stop, no parking, available Aug. 1, \$425 a month inclusive, send e-mail to jrvincen@uoguelph.ca.

Furnished three-bedroom home in south end, central air, water softener, dishwasher, finished basement, available July 1, references required, no pets, \$1,500 a month plus utilities, 821-3707.

Furnished two-bedroom apartment to share with mature female professional, quiet area, five-minute walk to campus, laundry, parking, no pets, available May 1, \$500 a month inclusive, Ext. 2012, 780-0115 evenings or isokolov@uoguelph.ca.

Two rooms in basement of modern home in south end, separate bath and kitchen, laundry, cable, parking.

non-smokers, no pets, available May 1, references required, 824-5440 after 5 p.m.

Furnished two-bedroom townhouse in family housing complex on College Avenue to sublet from April or May to August, rent to be negotiated, 767-0634 or send e-mail to jcockero@uoguelph.ca.

WANTED

Furnished three-bedroom apartment, townhouse or house for sabbatical professor and family from July 2002 to August 2003, David, Ext. 2747 or dnoakes@uoguelph.ca.


House for family of four, preferably in the country with at least three bedrooms, but open to in-town options, spring or summer possession, non-smokers, 765-965-7413 or SDYCK 1025@aol.com.

Four-bedroom accommodation for four female students from May 2002 to May 2003 or September 2002 to May 2003, close to campus, references available, Natalie, 829-3637 or nfisk@uoguelph.ca.

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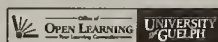
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EVENTS

ARBORETUM

Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays until April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks continue March 17 with "Wonderful Winter Fruit" and March 24 with "Wilderness Survival." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Willow artist Barbara Guy leads an introductory workshop on willow wattle weave April 8 from 9:30 a.m. to 4:30 p.m. Cost is \$70 and includes materials. Registration and payment are required by March 25.

Naturalist Chris Earley presents a session on cottage birds April 10 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment are due March 27.

"Stories in Stone" is the focus of a hands-on workshop led by Larry Drew April 13 from 1 to 3 p.m. Cost is \$18 for adults, \$9 for children or \$40 for a family of four. Registration and payment deadline is March 28.

ART CENTRE

Robert Enright, journalist, critic and editor of *Border Crossings*, will speak on "The Bodies of Eric Fischl: Corporeal Ghosts and Visual Hauntings" March 20 at 12:30 p.m. at the Macdonald Stewart Art Centre.

ATHLETICS

The Department of Athletics presents All-Star Saturday March 23, featuring some of Canada's top players in men's and women's basketball and volleyball. Basketball games run at 1 p.m. for women and 3 p.m. for men. Volleyball is slated for 6 p.m. for men and 8 p.m. for women. Games are in the Mitchell Athletics Centre. Admission is \$7 for adults, \$5 for seniors, \$4 for students and \$1 for children, with all proceeds going to Camp Trillium for children with cancer.

COLLOQUIUM

The College Faculty of Environmental Design and Rural Development presents Montreal landscape architect Vincent Asselin, president of the Canadian Society of Landscape Architects, March 14 at 3:30 p.m. in Landscape Architecture 125. His topic is "Thinking Outside the Box: A Personal Perspective on Landscape Architecture and Urban Design in China."

CONCERTS

Thursday noon-hour concerts continue March 21 with the U of G choirs led by Marta McCarthy and March 28 with student soloists. The concerts are in MacKinnon 107.

FORUMS

The School of Languages and Literatures Forum presents Prof. Dorothy Odarte-Wellington examining "Recent Trends in Spanish Fiction: Reading the X Generation" March 28 at 4 p.m. in the University Club.

The open forum series presented by Student Affairs continues March 18 with Pat Richards of the Department of Athletics discussing "Academic Enhancement Through Activity/Athletic Involvement." The talk begins at 11:30 a.m. in UC 441.

LECTURES

Third Age Learning's Wednesday lecture series for retired people wraps up March 20 with Prof. K.C. Tan, Geography, discussing the future of China at 10 a.m. and Prof. David Douglas, Rural Planning and Development, on "Poland: Challenges in the Transition" at 1:30 p.m. The Thursday series concludes March 21 with Rev. Lucy Reid exploring "Spiritual Dimensions of Community" at 10 a.m. Lectures are at the Arboretum Centre.

NOTICES

The Fine Art Network, a student-run organization dedicated to promoting the fine arts at Guelph, will hold its 33rd annual juried art show March 15 to 17 in Zavitz Hall. The official opening is March 15 at 7 p.m.

The International Development Research Centre (IDRC) offers Canadian Window on International Development Awards for graduate students. Deadline is April 1. Details are on the Web at www.idrc.ca/awards/windowe.html.

Alumni Affairs and Development is looking for student alumni ambassadors to help plan and co-ordinate alumni events this summer. Applicants should be organized, detail-oriented and enthusiastic team players. A full job description and applications are available at Alumni House on Arboretum Road. Application deadline is March 18.

Guelph's annual March Break Campus Days program for prospective students and their parents is running March 13 to 15. Hundreds of U of G faculty, staff and students are participating in the program, which is based in the Athletics Centre.

The Wellness Centre hosts the 10th annual Wellness Fair March 19 from 10 a.m. to 3 p.m. in the UC courtyard. Presenters will give demonstrations and answer questions about personal health and well-being. Everyone is welcome.

The Canadian International Development Agency is calling for applications for its 2002 Awards for Canadians, which support individual contributions to international development. Eligible applicants are mas-

ter's students and professionals who wish to conduct action research or a service project in partnership with an organization in a developing country. Application deadline is April 15. For more details, visit the Web site www.cbie.ca/canstu.html, call 613-237-4820, Ext. 234, or send e-mail to smelanson@cbie.ca.

The International Development Research Centre provides awards for researchers and graduate students at Canadian universities to do field research in collaboration with Peruvian researchers. The award value is up to \$6,000 for air travel and basic field research expenses. Application deadline is April 2. For details, visit the Web site www.idrc.ca/awards/consortium_peru.html.

The German Academic Exchange Service (DAAD) is calling for applications for its Germany Today program in June. The theme is "The New Politics of Life Sciences in Germany and in Europe." Application deadline is April 1. For details, visit the Web site www.daad.org/special-programs.htm#Germany.

SEMINARS

"Are Protein-Protein Interactions by Coiled-Coil Domain Implicated in the Osmoregulation of ProP Activity?" is the topic of graduate student Jumana Khambati March 14 in the biochemistry seminar series. On March 21, graduate student Huijia Zhou considers "Characterization and Functional Analysis of Human Cytochrome P450 1A2 Variants Expressed in *E. coli*." Seminars begin at noon in MacNaughton 222.

The Department of Microbiology graduate student seminar series features Pan Wang March 15 at noon in Food Science 128. His talk is titled "Elucidation of the Catalytic Mechanism and Substrate Specificity of BphH, a Hydratase Involved in the Degradation Pathway of Biphenyl/Polychlorinated Biphenyls."

The Department of Zoology seminar series continues March 15 with Peter Turchin of the University of Connecticut discussing "Simple Explanations for Complex Population Dynamics." On March 22, the topic is "Evolutionary Genetics of the *Daphnia Pulex* Complex: Population Divergence, Clonal Selection and Inbreeding" with Charlie Baer of the University of Indiana. Seminars begin at 3:30 p.m. in Axelrod 265A.

The Department of Plant Agriculture seminar series continues March 18 with Charlie Boone of the Banting and Best Institute in Toronto outlining "Frontiers in Proteomics: SH3 Domain Proteomics — Automation of Yeast Genetics" at 4 p.m. in MacKinnon 031. On March 26, Peter McCourt of the University of Toronto considers "Molecular Genetic Analysis of Hormone Signaling in *Arabidopsis*" at 4 p.m. in MacKinnon 115.

Next up in the Axelrod Institute of Ichthyology's seminar series is Tom Johnson of Fisheries and Oceans Canada in Burlington discussing "Inter-Individual Variability in Reproductive Success in an Iteroparous Fish" March 19 at 12:30 p.m. in Axelrod 168. On March 21, Nick Goodwin of McMaster University examines "Life History and Evolution of Parental Care in Fishes" at noon in Axelrod 117. On March 26, Prof. Rich Moccia, Animal and Poultry Science, explains "Water Quality Impacts of Cage Culture in the Great Lakes" at 12:30 p.m. in Axelrod 168.

TEACHING SUPPORT

Teaching Support Services offers hands-on training in learning technologies for instructors, TAs and instructional support staff. Up next is "Producing Quality Video for Teaching" March 19. Slated for next month are "HTML II: Creating a Course Web Site" April 3, "WebCT Advanced Series: Session III: Managing Content" April 10, "Using Photoshop to Optimize Images for Teaching" April 12 and "Producing Quality Digital Audio for Teaching" April 16. Full descriptions of all workshops can be found on the Web at www.tss.uoguelph.ca. Online registration is required.

THEATRE

Continuing until March 16 at the Inner Stage is the drama program's student production of *The Dog Beneath the Skin* by W.H. Auden and Christopher Isherwood. Performances are at 8 p.m., except for Saturday's, which begins at 7 p.m. Tickets are \$6 and \$8 and are available at the UC box office, Ext. 4368 or at the door.

Curtain Call Productions presents *Guys and Dolls* March 14 to 16 at War Memorial Hall as part of College Royal. Performances are at 8 p.m. with a 2 p.m. matinee March 16. Tickets for the evening shows are \$8 in advance, \$10 at the door. Matinee tickets are \$6 and \$8. Advance tickets can be purchased at the UC box office or River Run Centre.

THESIS DEFENCES

The final examination of MA candidate Suzanne Thill, History, is March 19 at 9 a.m. in MacKinnon 132. The thesis is "That the Scots Have Done and Suffered: Presbyterians, Episcopalians, Identity Creation and Anti-Union Works, 1702-1707." The advisers are Profs. Elizabeth Ewan and Donna Andrew.

The final examination of Scott Moir, a PhD candidate in the Department of History, is March 27 at 1:30 p.m. in MacKinnon 132. The thesis is "Some Godlie, Wyse and Vertuous Gentlemen: The Justice of the Peace, Community and State Formation in Scotland, 1587-1660." His adviser is Prof. Elizabeth Ewan.

WORKSHOPS

Computing and Communications Services is offering workshops for faculty and staff this semester through Human Resources. Upcoming sessions include "Corporate Time Intermediate" March 19, "Getting Around Excel" March 22, "Introduction to WebMail" March 26 and "Getting Around Access" March 28. For more details or to register, visit the Web site www.uoguelph.ca/ccs.

COMMUNITY EVENTS

The Elora Festival Singers, under the direction of Noel Edison, will perform *The St. John Passion* by Bach March 17 at 3 p.m. at the Chapel of St. Margaret and St. John at St. John's-Kilmarnock School in Maryhill. Tickets are available at the door or by calling 846-9694.

The Church of Our Lady's Sunday concert series wraps up March 17 with an organ recital by Simon Irving at 3 p.m. Admission is free. On March 23, the vocal group Tacitus performs Lenten masterpieces at 8 p.m. Tickets are available at the door.

The next meeting of the Canadian Federation of University Women March 26 features guest speaker Simon Wynberg, artistic director of the Guelph Spring Festival. The meeting begins at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd.

The Bookshelf is calling for submissions for its third annual poetry contest by March 31. There are two categories — one for adults and one for poets 12 and under. Only one entry per person is allowed. For more details, call 821-3311.

The Guelph Concert Band presents "Lord of the Rings," a musical journey featuring narration by actor Chris Wiggins, March 17 at 3 p.m. at the River Run Centre. For tickets, call 763-3000.

The next meeting of the Wellington County branch of the Ontario Genealogical Society is March 26 at 7 p.m. at the Unitarian Church, 122 Harris St. Fawne Stratford-Devai will discuss the importance of maps in family research.

The Niagara Brass will perform a benefit concert for the Guelph Concert Band March 22 at Chalmers United Church. Tickets are available at the door, at the River Run Centre or by calling 837-0276.

Evergreen Action Nutrition and the Wellington-Dufferin-Guelph Health Unit will mark National Nutrition Month with a "Food Lovers' Festival for 50+" March 27 from 10 a.m. to 2 p.m. at the Evergreen Seniors Centre. Cost is \$2 or a donation to the food bank.

BA Student Wins Commonwealth Scholarship

Academic achievement, commitment to international development earn student a chance to do the graduate program of her dreams

JANET McLAUGHLIN knows all about the importance of good timing. Come fall, the fourth-year international development student will be heading off to England to attend the graduate program of her dreams — all expenses paid — partly because she was in the right place at the right time one day last semester.

McLaughlin is a 2002 recipient of a prestigious Commonwealth Scholarship, which is awarded to students with high intellectual promise and supports all the costs of doing a graduate degree abroad in another Commonwealth country. But she didn't even know the scholarship existed until four days before the application was due in October.

By chance, she had dropped in to Johnston Hall late one afternoon to talk to a professor and was waiting outside his office when a friend happened along. The friend was just finishing off his own application for the Commonwealth Scholarship and asked her if she was applying, too. Within minutes of learning what the scholarship was all about, McLaughlin was making a dash for the student awards office for an application form, arriving just as the doors were about to close. She then spent a frantic couple of days writing a research proposal, ordering transcripts and lining up faculty to write letters of support, but managed to get the application off on time.

The reward for that good timing and quick response — not to mention her years of academic achievement and long-standing commitment to international development — is the chance to spend a year earning a master's degree in human rights at the University of Sussex, where she's longed to do graduate work



Janet McLaughlin will use her Commonwealth Scholarship to study human rights at the University of Sussex in England this fall.
PHOTO BY MARTIN SCHWALBE

since she was a high school student in Waterloo.

"I've always been interested in world issues, and Sussex has one of the best development programs in the world," she says. "I was in England a couple of years ago and visited Sussex, and it just felt right. It's the same feeling I had when I first came to U of G."

McLaughlin arrived at Guelph in 1998 as a President's Scholar, an award that recognized not only her academic excellence but also her commitment to social justice and human

rights issues, her volunteer work for agencies such as the AIDS Committee of Kitchener-Waterloo, her contributions to student life at her school and her leadership in athletics. Not to mention her talents as a musician and juggler, both of which she put to good use at fundraisers for local charities.

Over the past four years at U of G, McLaughlin's passionate commitment to the causes and interests she held throughout high school has continued to grow. In high school, she had done some travelling to Mexico and Ja-

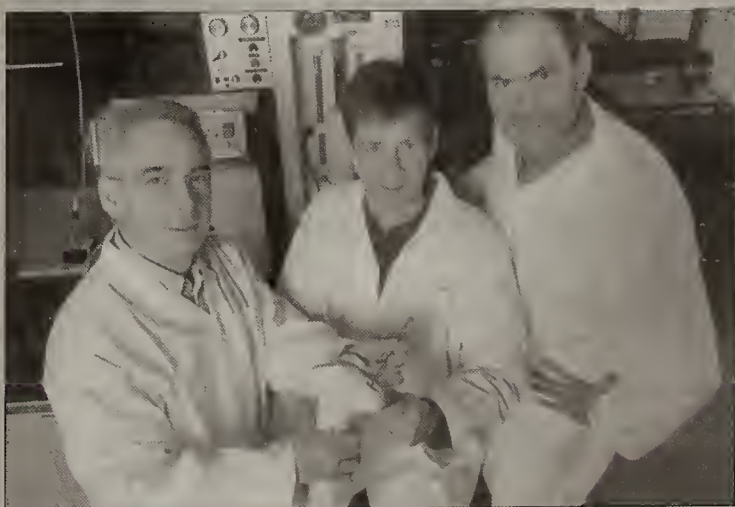
maica, where her mother was born, but she expanded her international experience and awareness further at Guelph by spending summers volunteering in Guatemala and India, then later returning to Guatemala for a semester abroad. As a volunteer in Guatemala, she taught Spanish, mathematics and English to children in a rural village. In India, she worked with street children in Calcutta, an experience that she says proved to be a huge lesson in humility and in recognizing her own limitations.

"When I went to India, I had this big idea to start up a centre to help street kids. Instead, I ended up just hanging out with them and trying to get them into school programs. There was just so much bureaucracy, and the system was so complex. The lesson I learned was that you can't just go to a country with a naive conception that you can help people. It was a hard lesson for an idealist to learn. I cried a lot, and I felt naive and useless. But then I told myself that I can't do everything — I can just do what I can. This has allowed me to focus on what I can do and to do it well. Now I put my time and heart and soul into whatever project I'm working on instead of trying to do too much."

She also finds inspiration in one particular street child she befriended in Calcutta. "He came with me to the airport when I was leaving and begged me to take him with me. It broke my heart. Now when I do any kind of social justice work, I think of him and all the kids like him who are most affected by these issues around the world."

During her summer in India, McLaughlin also travelled throughout the country and into

Continued on page 8



A Joint Effort

The debilitating effects of damaged joints in horses have spurred a collaborative research initiative that could also help eliminate arthritis and treat sports injuries in people. From left are Profs. Mark Hurtig, John Runciman and Jim Dickey. See story on page 4.
PHOTO BY MARTIN SCHWALBE

Food Safety Network Officially Launched

Donner Foundation, OAC grad provide crucial support

UOF G formally launched the Food Safety Network, Canada's most comprehensive science-based source of information on food safety and related issues, March 19 during a special event on campus.

"Consumer concerns about food safety have increased to unprecedented levels," says Prof. Doug Powell, Plant Agriculture, the network's scientific director. "This network is an important bridge between science and public policy for consumers and others in the farm-to-fork food safety system around the world."

The network provides the most up-to-date international research, commentary, policy evaluation and public information on food safety and safe food handling.

Its features include:

- a food safety Web site located at www.foodsafetynetwork.ca and extensive databases;
- a comprehensive information centre that will soon feature a national toll-free food safety hotline staffed by food and health professionals;
- daily news pages and four listservs: the Food Safety Network, the Agriculture Network, Animalnet and Functional FoodNet; and
- a research and demonstration farm that conducts studies on organic, genetically modified and traditional fruit and vegetable crops.

Funding for the network also supported a Donner Foundation Fellowship that allowed Globe and

Continued on page 3



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New Testing Device Valuable Tool at Health and Performance Centre

Gift from Pearson Foundation enables centre to buy 'wish list' equipment

ELITE ATHLETES and weekend warriors alike will get back into the game with fewer worries about re-injury through the use of new isokinetic equipment recently acquired by U of G's Health and Performance Centre, says Cyndy McLean, co-ordinator of the centre.

The \$65,000 machine — funded by a donation from the L.J. Pearson Foundation — will give the centre's physiotherapy patients more confidence about resuming their regular sports or exercise regimens without risking further damage to limbs and muscles on the mend, McLean says.

Installed this semester in the Powell Building, the Biodes isokinetic system, with its adjustable weights and array of sensors, allows practitioners to run a battery of tests to measure muscle strength and endurance, particularly at ankle, knee, elbow and shoulder joints.

Besides assessing the amount of force exerted by the patient, the machine provides crucial information about the speed at which that force is produced.

"The transferability to sport is huge," says McLean. "There's a great opportunity here to ensure that people have not only recovered their strength in static positions but also in dynamic movements. In terms of 'return to play,' that's critical."

Users will include varsity athletes, U of G employees and students, elite athletes and residents referred from the city of Guelph and further afield. For example, practitioners might use the equipment to suggest strengthening exercises for elderly patients with arthritis. Athletes recuperating from injuries — including surgery for the common affliction of torn ligaments — could use the machine to monitor their progress and determine more precisely when they're safe to resume regular training and competition.

The Pearson Foundation, named for Jan and Larry Pearson, a 1972 B.Sc. graduate of Guelph who served for a number of years on Board of Governors, has provided funding for several other pieces of equipment at the Health and Performance Centre.

"This equipment was part of a wish list for a long time," says McLean, explaining that an isokinetic system is typically available only in a specialized clinic or in a teaching hospital.

"There really wasn't any facility in this region that catered to recreational athletes, elite athletes and the general population who wanted to be active."

Although most universities provide physiotherapy services on campus, she says no other nearby university has a multidisciplinary clinic with the range of services provided by the Health and Performance Centre, including use of an isokinetic system.

Referring to the system's array of sensors and onboard computer, McLean says the new equipment not only tests clients but also makes it easier to track patient progress over a number of weeks.

"It's set up to manage the data and visually describe that data so the information is not only useful for the practitioner but is also meaningful for the client."

Valerie Brouwers, a physiotherapist who uses the machine along with two athletic therapists, says it provides objective data for patients, therapists and other practitioners, including referring physicians and orthopedic surgeons.

Trent Stellingwerf, a PhD candidate in the Department of Human Biology and Nutritional Sciences, adds that the device will allow practitioners to assess strength imbalances among different muscles, which can cause injuries.

"It's been shown that weak hamstrings compared with quads can lead to an increased risk of hamstring tears and knee injuries," he says.

"With this equipment, recreationally active and elite athletes can use the testing to identify muscle imbalances and then take this information to design an off-season training program to reduce the risk of injury and to maximize performance."

BY ANDREW VOWLES

IN MEMORIAM

ERNA DAHMS

Retired U of G librarian Erna "Moshie" Dahms died March 13 after a long illness. She joined the University in 1975 and retired as senior reference librarian in 1994. Born in Vienna, she was a Full-bright Scholar who held a PhD in German literature from the University of Waterloo and an MLS from the University of Western Ontario. After retirement, she completed a diploma in horticulture from U of G. She was also the author of numerous articles on library and information sciences and other general topics.

TERESA HEPBURN

Teresa Hepburn, a staff member in the Department of Computing and Information Science, died March 16 at age 51. She had been employed at the University since 1975 and is survived by her daughter, Tamara.

@Guelph Publication Schedule

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April 24	April 16	June 5	May 28
May 8	April 30	June 19	June 11

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UNIVERSITY OF GUELPH

CSA EXECUTIVE ELECTED

A new Central Student Association executive has been elected for the coming academic year. Beginning terms as commissioners May 1 are Dave Hauch (communications), Sanjay Chakraborty (operations and finance), Tahira Dosani (local affairs), Erinn White (academics) and David Sone (external). During this month's elections, students

also voted on a number of referendums. Among the results: rejection of an increase in student fees for the Ontario, acceptance of a ban on smoking in all campus bars and restaurants, and acceptance of a fund to help needy students who aren't eligible for government aid.

STUDENTS DONATE MEAL POINTS FOR LOCAL CHARITIES

U of G residence students contributed \$11,900 from their meal cards this month to help address hunger in the Guelph area. Working with the student-run charity Meal Exchange, close to 1,000 students donated points from their meal cards March 4 to 15 to buy food for 14 local organizations, including area food banks, Wyndham House and the Onward Willow Centre. This semester's donations were up \$3,000 over last semester and bring total contributions for 2001/2002 to \$20,500.

MCLAUGHLIN LIBRARY HOURS EXTENDED DURING EXAMS

The McLaughlin Library will be open extended hours during winter examinations April 8 to 18. Hours are 8:30 a.m. to 1:15 a.m. Monday to Friday and 10 a.m. to 1:15 a.m. on weekends. Throughout this period, the OVC Learning Commons will be open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on weekends. From April 19 to 26, both libraries will be open from 8:30 a.m. to midnight Monday to Friday and 10 a.m. to midnight on the weekend. On April 27 and 28, McLaughlin will be open from noon to 10 p.m., and the OVC Learning Commons will be closed.

APPOINTMENTS

Prof. Bob Balahura is acting chair of the Department of Chemistry and Biochemistry until April 30.

Prof. Douglas Dalgleish joined the Department of Food Science as assistant professor Jan. 14.

Prof. Douglas McCalla joined the Department of History as assistant professor Jan. 1.

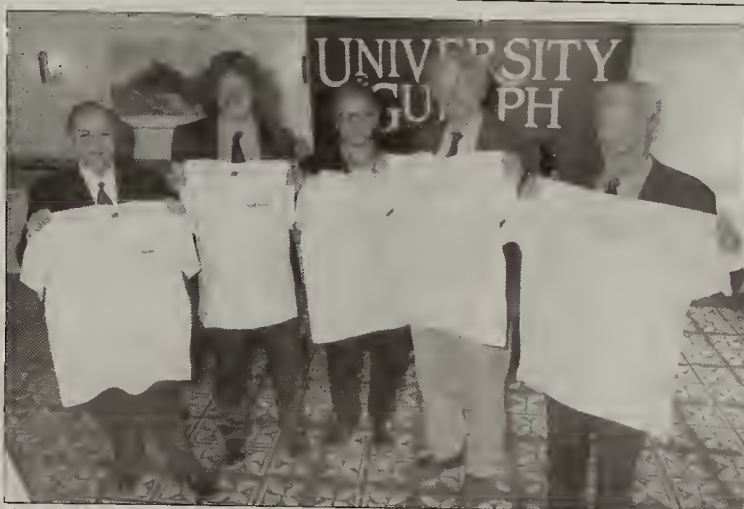
Suzanne Millman of the Humane Society of the United States has been appointed assistant professor in the Department of Population Medicine, effective July 1.

Prof. David Swayne has been appointed acting associate dean of the Faculty of Environmental Sciences until Aug. 31.

Darren Wood of the University of Wisconsin-Madison has been appointed assistant professor in the Department of Pathobiology, effective July 1.

Food Safety Network 'Puts Science Into Action'

Continued from page 1



Showing off Food Safety Network T-shirts at the network's official launch are, from left, president Mordechai Rozanski; Prof. Doug Powell, the network's scientific director; Patrick Luciani of the Donner Foundation; *Globe and Mail* columnist Stephen Strauss; and project donor Ken Murray.

PHOTO BY MARTIN SCHWALBE

Mail reporter Stephen Strauss to spend a year on campus exploring emerging issues in agriculture, food and biotechnology.

U of G was able to publicly launch the network after several years and more than \$570,000 in support, including \$320,000 from the Donner Foundation and more than \$250,000 from OAC graduate and former Board of Governors chair Ken Murray, known for his distinguished career in the Canadian meat-packing industry.

Such support was crucial to the establishment of the Donner Foundation Fellowship and to the development of the infrastructure needed for the network, says president Mordechai Rozanski.

"We are grateful to the Donner Foundation and to Ken Murray for their generous support. Guelph has a long and proud tradition of national leadership in innovative research focused on agriculture and food. We also have a commitment to rigorous

scientific inquiry and to communicating these advances to as wide an audience as possible. Shaping and evaluating public policy on the critical issue of food safety is a natural fit with our areas of strength."

The network will work closely with the Canadian Research Institute for Food Safety, also housed at Guelph, as well as other national and international collaborators. The network will develop food safety programs and identify and assess appropriate food safety interventions. It will also use survey work and media analysis to determine public perceptions and effectiveness of food safety programs.

In addition, a new graduate course in food safety risk analysis will be launched in the summer semester to help produce a new generation of science-based public policy and public education leaders.

"The Food Safety Network puts science into action," says Prof. Alan Wildeman, vice-president (re-

search). "It will contribute to the development of scientific and credible food safety programs and supply a strong science-based voice about emerging food safety issues."

The network also benefits media in Canada and around the world, providing the latest news and research on food safety and agri-food risk issues via daily listservs.

"Doug Powell has created an internationally recognized resource," says Strauss. "It's a very useful tool for journalists covering these issues, as well as for people working in the industry and the general public."

Powell adds that the network will also help scientists and food producers understand public concerns and perceptions.

"Science is not conducted in a vacuum," he says. "Researchers need to be better educated about and sensitive to public views and questions on food safety. It's a reciprocal process."

BY LORI BONA HUNT

Broad Input Sought on OAC's Strategic Planning Process

Overarching goal is to create a culture of involvement in planning for the future

ONTARIO Agricultural College dean Craig Pearson has launched a new strategic planning process for the college and is urging everyone with a stake in OAC's future to take part.

"We want to hear ideas and suggestions from as many people as possible as we start the process of designing our future," he says.

Retired OAC faculty member Mark Waldron of M.W. Waldron Associates will facilitate the planning process. He will be assisted by a steering committee composed of stu-

dents, faculty and staff from the college, as well as participants from other universities.

The six-week process, which wraps up April 30, will include 20 focus group sessions involving faculty, staff, students and alumni across the province, as well as interviews with rural community leaders and other external stakeholders.

Pearson says one of the key issues to be examined is how to get the best outcomes from OAC's province-wide network of campuses — Guelph, Ridgetown, Alfred and

Kemptville. "We want to create a big plan for a multi-campus OAC," he says.

He notes that the overarching goal is to "create a culture of involvement in planning for the future of OAC. Once the plan is in place, it will inform our activities with respect to curriculum proposals and strategic directions for research and marketing."

A study guide for people providing input to the process is available by calling the dean's office at Ext. 6514.

PEOPLE

WEED SCIENTIST HONOURED FOR OUTSTANDING RESEARCH

Prof. Clarence Swanton, chair of the Department of Plant Agriculture, received the Weed Science Society of America's Outstanding Research Award at the society's annual meeting in Nevada last month. Swanton was recognized for his exceptional work in several areas of weed science, including integrated weed management, weed and crop modelling, weed biology and the economics of weed management. He was also honoured for his commitment to the discipline of weed science.

LANDSCAPE ARCHITECT IS VISITING PROFESSOR IN JAPAN

Prof. Bob Brown, Landscape Architecture, is spending four months as a visiting professor at the University of Tokyo. He is working with Kazuhiko Takeuchi in the Laboratory of Landscape Ecology and Planning, which is part of the Department of Ecosystem Studies in the Graduate School of Agricultural and Life Sciences. Brown's activities include co-editing a book titled *Satoyama: The Traditional Rural Landscape of Japan*, participating in a graduate seminar course and carrying out research on how traditional Japanese gardens modify the microclimate to create comfortable environments in urban areas.

STUDENT EVALUATION TEAM ADVANCES TO FINAL ROUND

A team of five students in the School of Rural Planning and Development represented U of G in the Canadian Evaluation Society (CES) 2002 Case Competition last month and were one of three teams selected to move on to the final round of competition at the CES annual meeting in Halifax in May. Working under the supervision of Prof. Harry Cummings, the team consists of Linda Beyer, Lisa Hardess, Valerie Leinan, Christine O'Malley and Sarah Parkinson.

CANADA BASKETBALL NAMES SUMMER COACHING TEAM

Chris O'Rourke, head coach of the Gryphon men's basketball team and intercollegiate co-ordinator in the Department of Athletics, has been named an assistant coach for Canada Basketball's annual summer program. He will be working with the men's junior national team, which is slated to compete at the COPABA world qualification tournament.

PROFS HOST WORKSHOP ON RURAL STUDIES

Profs. Tony Winslow, Sociology and Anthropology, and Ellen Wall, Environmental Sciences, were organizers and hosts of a two-day academic workshop March 22 and 23 on the theme "Rural Studies of Canada: Critique and New Directions." Funded by the Social Sciences and Humanities Research Council, the workshop brought together 16 distinguished scholars who have made substantial contributions to the understanding of rural Canada.

TOWARD 2010

THIS IS PART of a continuing series of profiles on the more than 50 new faculty members who have joined U of G over the past year.

DEAN BETTS

Assistant professor, Biomedical Sciences

Background: B.Sc. (cell biology) and M.Sc. (zoology), University of Western Ontario; PhD (biomedical sciences), University of Guelph

Teaching objectives: To provide students with the knowledge and skills of emerging biotechnologies that will allow them to flourish in graduate school, academia or industry.

Research objectives: As part of the Food System Biotechnology Centre, I am involved in developing and using molecular genetics and genomic tools to evaluate and understand the mechanisms of epigenetic reprogramming in nuclear transfer embryos for the long-term goal of improving the efficiency of cloning elite domestic animals.

Attraction to U of G: I believe the University of Guelph currently has the best facilities and research environment to conduct this type of research in Canada.

breast cancer risk, and in people with diabetes with respect to kidney disease risk. I am also interested in the metabolism of soy isoflavones.

Attraction to U of G: The quality of research and teaching and the supportive environment that promotes excellence. Having done my undergraduate degree here, I have always had a fondness for the University and an awareness of its quality.



Dean Betts



Shayan Sharif

temporary painting and drawing, with an emphasis on the relationship of materiality to visuality. I exhibit my work regularly in solo and group exhibitions, nationally and internationally.

Attraction to U of G: The studio and art history programs offer comprehensive training for artists within a relatively personal environment.



Alison Duncan



Yiguo Sun

Attraction to U of G: My past experience with the conducive and fostering atmosphere of this institution, as well as the prospect of unique research opportunities.

YIGUO SUN

Assistant professor, Economics

Background: B.Sc. and M.Sc. (mathematics), Hebei Teachers



Will Gortitz



Gary Umphrey

metric and semiparametric hypothesis tests; and applications to time series data in finance. Also price catastrophe-linked securities.

Attraction to U of G: The reputation of the Economics Department, the opportunities for research and teaching and the quiet nature of the city.

GARY UMPHREY

Assistant professor, Mathematics and Statistics

Background: B.Sc., M.Sc., University of Guelph; PhD, Carleton University

Teaching objectives: Students in many disciplines other than statistics still need to develop a basic understanding of statistical inference, experimental design and some statistical methods for data analysis. I try to help students develop this understanding efficiently and relatively painlessly, so that most won't equate "statistics" with "sadistics." Students intending to become professional statisticians will encounter more pain as they develop needed skills, but typically they are well compensated for their suffering in their future careers.

Research objectives: I'm interested in biostatistics, evolutionary biology and systematics of ants, hybridization phenomena, and biodiversity science and conservation. In the latter area, I am especially interested in issues of statistical inference related to mapping predicted species distributions and using such maps to conduct geospatially explicit "gap analysis" assessments of the network of conservation lands.

Attraction to U of G: I thought this was a great place to be a student, and it's a delight to return as a faculty member. At Guelph, there is always a lot happening in bioscience research, and statisticians here tend to be quite interested in applied statistics. I also like the historical traditions of the University and the layout and look of the campus.

ALISON DUNCAN

Assistant professor, Human Biology and Nutritional Sciences

Background: B.A.Sc. (applied human nutrition), University of Guelph; M.Sc. (nutrition), University of Toronto; PhD (nutrition), University of Minnesota

Teaching objectives: To foster effective communication and understanding by focusing on rapport development, using variable teaching techniques and seeking continual feedback from students.

Research objectives: To investigate the biological effects of soy and its bioactive constituents in humans. Specifically, I am interested in the hormonal effects of soy isoflavones in men with respect to prostate cancer risk, in women with respect to

WILL GORTITZ

Associate professor, School of Fine Art and Music

Background: BFA, Nova Scotia College of Art and Design

Teaching objectives: To provide the necessary technical competence and theoretical framework to prepare students for the unpredictable epiphanies that occur in the making of art.

Research objectives: I am a representational artist committed to con-

SHAYAN SHARIF

Assistant professor, Pathobiology

Background: DVM, University of Tehran; PhD, University of Guelph

Teaching objectives: To promote the love of learning and independence of thought among our students.

Research objectives: To probe various aspects of host-pathogen interactions, including induction and regulation of host immune response to pathogens and genetics of host resistance.

University, China, MA (economics), University of Guelph; PhD candidate (economics), University of Toronto

Teaching objectives: To provide undergraduate students with basic statistic tools to analyse economic data, and provide enough theoretical econometrics background to graduate students for their future research.

Research objectives: Econometrics theories, adaptive estimation; non-parametric

Arthritis Relief May Be in Sight for Horses, Humans

Multidisciplinary project will explore new equine surgical techniques that could also help human arthritis sufferers

THE DEBILITATING EFFECTS of damaged joints in horses have spurred a collaborative research initiative that could also help eliminate arthritis and treat sports injuries in people.

Techniques to manage what's called subchondral cystic lesions — the large cyst-like cavities that occur on joint surfaces in horses from injuries or developmental troubles in bone growth — are the focus of a research program led by Prof. Mark Hurtig of the Department of Clinical Studies.

The study, just getting under way, will draw on the expertise of veteri-

narians, engineers and human biologists, and will involve three main projects to tackle the affliction that leaves thousands of horses lame or arthritic annually in Canada. If it works, says Hurtig, the technology could then be used to prevent the pain faced by millions of human arthritis sufferers worldwide.

"This type of collaborative multidisciplinary research is essential for solving health problems such as arthritis," he says. "Horse repair is a robust test of the technology because the animals might be used for racing or jumping following treatments, but people wouldn't necessarily be

subject to such high activity levels."

The research team includes Profs. Jim Dickey of the Department of Human Biology and Nutritional Sciences and John Runciman of the School of Engineering, along with Michael Buschmann and Caroline Hoemann of Ecole Polytechnique in Montreal.

The techniques they hope to perfect will combine bone grafts, bone cement and biodegradable equine cartilage cells. The work, associated with the Canadian Arthritis Network, will be used as a preventive measure against the disease.

Research with osteochondral

grafts — cylindrical graphs of bone or cartilage that are harvested from a donor horse and then transplanted — will involve determining the size and amount of the graft required to ensure minimal gaps in the reconstruction of joint surfaces.

To achieve stability in the grafts once they're placed in the cystic lesions, biodegradable bone cements will be set in between the grafts and the cystic cavity wall. This will hold the grafts in place for the short term, enabling immediate post-operative weight-bearing and allowing the body to build bone in its place over the long term.

In addition, for the first time ever, equine cartilage cells will be grown in a biodegradable polymer gel, then inserted on top of the bone cement and in the spaces between the grafts. This will help produce a watertight seal at the joint surface and prevent the admission of joint fluid into the subchondral bone.

"We want a perfect solution," says Hurtig. "Perfection is important if you're going to be standing on that leg for the rest of your life."

This research is sponsored by the Morris Animal Foundation.

BY MICHELLE OSBORNE
SPARK PROGRAM

the campus community campaign for the University of Guelph

Projects Aim to Enrich Working, Learning Environment

THE CAMPUS community campaign is all about people — faculty, staff, students and retirees — and making the University of Guelph a better place to learn, to teach, to work and to do research.

Those who work at U of G commit their time and energy to the institution for a number of reasons, including their belief in the goals of a post-secondary institution. Because of this, and as part of the community campaign, most units and department on campus have identified projects that will enrich Guelph's working and learning environment and contribute to positive change.

The following projects were initiated at the "grassroots" level by dedicated and committed U of G staff, faculty and students.

A BETTER JOHNSTON HALL

With its imposing stone tower, large clock and limestone exterior, Johnston Hall is a landmark on campus. Dating back to 1932, it has accommodated the institution's early administration, soldiers during the Second World War and, in a much earlier incarnation on the same site, the Ontario Agricultural College.

Throughout that time, most of the building — which still houses OAC administrative offices on its main floor and a student residence on the three floors above — has held up well, says Kathy Biondi, director of OAC's academic initiatives. Its lobby, however, has seen better days.

"It's a 70-year-old building, so it's understandable that its centre foyer has fallen into some disrepair over the years," says Biondi. "The lobby has very old carpeting, its beautiful stone walls and staircase are stained, and there's at least one window broken on the front door."

Now, thanks to the campus community campaign, the lobby is about to undergo a makeover.

OAC dean Craig Pearson, Biondi and staff in the dean's office — some 15 people — have raised almost \$25,000 (out of a total \$36,600 raised for the campaign), to restore and refurbish Johnston Hall's entrance.

Biondi says both the idea of adopting the lobby's refurbishment as an office project and determining what will eventually be done to improve it have been team efforts all the way. The group is scheduled to meet April 2 to discuss some of the changes envisioned for the space.

Possible changes include renovating the dilapidated residence reception area and adding a lounge, meeting area or even a boardroom.

"It's a beautiful space, but right now, it's unused," says Biondi. "We envision it as a great and functional place for staff and students."

She adds that the project has captured the imagination of not only the staff in her office but also the people who manage the upstairs residence and even others across campus. She notes that the dean also plans to approach OAC alumni about the project to see if they, too, want to contribute to it.

She says the work will probably



OAC dean Craig Pearson, second from left, stands with his office colleagues in one of the stone staircases in Johnston Hall. The group has made the refurbishment of the hall's lobby its priority during the campus community campaign, raising almost \$25,000 for the project.

proceed in stages and will depend on how much money is raised overall.

A PLACE FOR FOOD SCIENCE STUDENTS

On the other side of campus, staff in the Department of Food Science have chosen a similar project to support. About two dozen faculty and staff in the department want to create a welcoming and well-equipped office for their undergraduate students, specifically the Food Science Students Club.

The students already have a "good-sized" office in the Food Science Building where they can congregate, says Margaret Timmins, the department's administrative assistant, but the space is sparsely furnished with only a desk.

"We have a very active food science club, and members do a lot of work around here," she says. Many food science students, for example, volunteered to help out at College Royal.

Timmins says with funds raised through the community campaign, the department wants to add a table and chairs to the student room, as well as a couple of computers and a filing cabinet.

"This will give our students a space they can call their own."

ENABLING TRAVEL

Support for student travel is what about 20 faculty and staff in the Department of Botany have chosen to raise funds for during the community campaign.

Prof. Roger Horton says the department has decided to establish a travel fund that will enable senior undergraduate students and some

graduate students to attend workshops, conferences and field trips.

He explains that in some instances, the department allocates funds to students to cover expenses associated with attending plant science workshops and conferences, but in tight budgetary times, this isn't always possible.

"We could always buy more equipment or more books," he says, "but we felt we should directly help the fairly small number of students who commit to a plant biology or plant ecology program. A travel fund was the most reasonable and most original idea we came up with."

Horton adds that the department believes travel is a vital part of student training, particularly for senior undergraduate students thinking of continuing on in plant science.

"They are the next generation," he says. "The whole of the plant biology program is not a huge area of the campus in actual majors. There's not a tremendous number of students there, so they are very precious to us."

Most of those awards are for people studying full time in degree programs, but that's not the reality for everybody," says Rick Nigol, manager of distance education (DE) and DE learning technologies in the Office of Open Learning.

The University has many learners in non-degree programs, and for them, there is little financial assistance available, he says. In an effort to address this, about 30 staff members in Open Learning plan to establish a bursary specifically for these students.

"We want to set up a bursary because we want to award assistance on the basis of financial need," says Nigol, adding that contrary to popular belief, not everyone taking continuing or distance education courses can well afford them.

"Certainly, we have people who take courses for enjoyment and personal enrichment, but I would say that the majority of our students take courses for professional development, to build their skills and improve their marketability."

"And although there are many people who have jobs, they might still be living very close to the financial edge and don't have the extra income to put towards continuing education. These are the kinds of

students we hope to help."

He adds that the bursary will aim to cover the costs of tuition or books.

KEEPING THE FAITH

The September attacks on the World Trade Centre and Pentagon shook the entire U of G community and elicited deep feelings of grief. Almost immediately, however, faculty, staff, students and administrators rallied to support one another.

Among the many coping mechanisms was a candlelight service at which members of the U of G Multi-Faith Resource Team — which represents the Christian, Jewish, Hindu and Muslim faiths — prayed for the victims, their families and the world in general.

"That was a perfect example of the kind of work we do," says Rev. Canon Lucy Reid, an Anglican priest and U of G's ecumenical chaplain. "We strive to work together and be respectful of one another as we meet the spiritual needs of the campus community."

The work of the Multi-Faith Resource Team, which includes regular and special-event worship services, officiating at weddings and running groups for study and support, has been identified as a project in the campus community campaign.

Reid explains that all the campus ministers are independently funded by church groups.

"U of G gives us office space but not a salary, so although we work on campus and for the University, we aren't paid by the University."

As such, the team "has been earmarked as a place people can donate money to," she says. "Donations can go either to the whole team or to individual ministries."

Reid says the funds will help the team offer even more services. "We work for the community and are here to meet its members' needs. Any additional money earmarked our way will go towards fulfilling more of those needs."

BY SUZANNE SOTO



President Morechai Rozanski presents Debbie Kron of Enrolment Statistics and Systems with the free campus parking pass she won in the draw for early bird contributors to the campus community campaign.

PHOTOS BY MARTIN SCHWALBE

FIT FOR LEARNING

"Society still perpetuates the division between academic performance and activity/athletic involvement"

BY PAT RICHARDS

Editor's note: The following is a condensed version of a talk given by Pat Richards, life-style/fitness program co-ordinator in the Department of Athletics, at a recent open forum sponsored by Student Affairs.

THE DIVISION BETWEEN athletic involvement and academic achievement is deep and rooted in our educational system. Universities, the highest level of that system, are no exception. In my mind, we are not moving towards a partnership between activity and academics. We still perpetuate the split.

Prior to 1900, many educators were opposed to extracurricular activities. They believed the purpose of schooling was solely academic — the pursuit of knowledge. Participation in other activities was not considered beneficial and was therefore discouraged. During the 1920s, we saw a complete reversal in attitudes. Educators' attention turned to the importance of school in a child's overall development. Involvement in clubs was encouraged and seen as a contributor to that development. Consequently, we have two points of view with extreme supporters for each side.

In the 1960s, sociologist James Coleman, whose studies strongly influenced educational policy in the United States, perpetuated the split by arguing that the adolescent culture placed more value on social factors — athletics, music, dating, popularity and material possessions — than it did on academics. He suggested that extracurricular activities distracted adolescents from learning-related activities. This led society to believe that time spent on activities outside the classroom competes with time devoted to academics and serves to divert students from their scholastic goals.

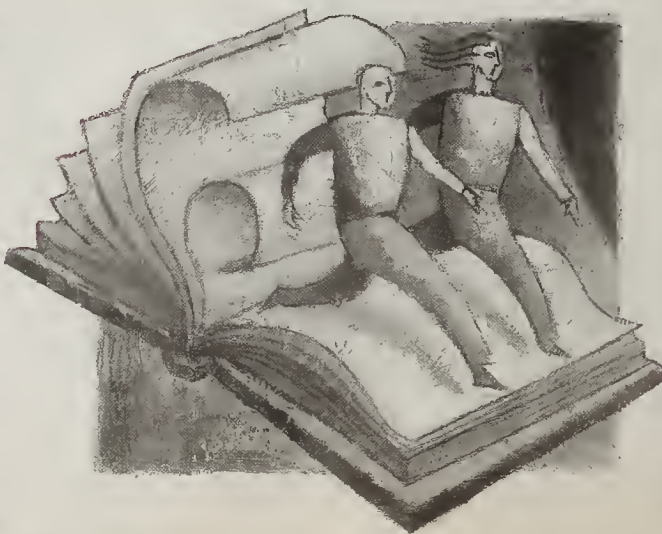
This has also led to support for restricting the non-scholastic function of schools. In many U.S. states, for example, there is a "no pass/no play" policy that prohibits students with low-grade averages from participating in extracurricular activities. Many parents take the same stand. Is it helpful or a hindrance? This approach implies that athletic involvement takes time away from academic involvement. It is, in essence, a return to the late 1800s.

Currently, society still perpetuates the division between academic performance and activity/athletic involvement. We don't have daily activity sessions, work to rule has become a common practice for teachers' unions, elite athletes missing classes is still frowned on, and activity involvement during busy times is the first thing to go. We still adhere to the idea: "Get your work done first, then play later" rather than: "Playing now will help us get the work done later in the same amount of time."

When we look at the research that has been done in this area, there are basically three studies referred to that try to find the link between activity/athletic involvement and enhanced academic performance.

The first is a study done in 1950 at an experimental school in Vanves, France, a suburb of Paris. For the study, academic instruction was curtailed by 26 per cent and limited to the mornings, with afternoons devoted to a wide range of physical activities and two rest periods. The students were also given vitamin supplements.

Although the results of this study were never formally published in English, there was some evidence that pupils enrolled in the experimental program had better academic results than those attending normal school classes, despite less time spent on academics. There also appeared to be fewer discipline problems, greater attentiveness and less absenteeism.



It's not known, however, how much of this could be attributed to the extra rest and vitamins the children received. In addition, little is known about the control group used for comparison in this study.

In 1978, Australian researchers conducted a 14-week study with more than 500 Grade 5 students in seven schools. The students were divided into three groups. One group spent less time on academic activity and more on physical activity that focused on fitness, a second group spent less time on academic activity and more on physical activity that focused on skills, and the third group was a control.

Despite a substantial reduction in academic curricular time for the fitness and skills groups, there was no significant inter-group difference in gains of arithmetic performance or reading skills — no increases and no losses. It was noted that even though the results did not meet standard significant values for research, there was a trend for a larger gain in arithmetic scores and a significantly larger gain in behavioural scores for the fitness group, but no intergroup difference of gains in reading age.

In the mid-1970s, a six-year study in Trois Rivières, Que., involved close to 550 students in two schools, one urban and one rural. Academic instruction was reduced by 14 per cent, and students received an additional five hours of activity per week under a physical educational specialist. Emphasis was on basic motor skills in grades 1 and 2, cardiovascular and muscular fitness in grades 3 to 5 and team sports in Grade 6.

During the first year of observation, the students in the control classes had, on average, somewhat better grades than the experimental students, but in grades 2 to 6, the experimental students outperformed the control significantly.

There are other, more recent, studies that have also explored the link between academic achievement and physical activity. In 1998, for example, researchers conducted a two-year study of 759 students in grades 1 to 5 in seven schools in southern California. A specially designed physical education program was delivered in four of the schools; the other three schools served as controls.

Four of eight statistical comparisons showed an advantage for students in experimental conditions. Only one of eight comparisons showed that control students had an advantage. These findings dispute the concerns of school administrators that spending more time on physical education will interfere with academic performance. They also support the contentions of physical educators that children who are more active and physically fit may be better learners.

In 1996, 10,822 Grade 8 students in Buffalo, N.Y., were

tested in mathematics, reading and science. At the same time, they were graded on a total extracurricular activity scale in two categories — in school and outside school. Increased participation in extracurricular activities was positively related to academic achievement. Participation in school-related activities was more strongly associated with academic achievement than was participation in activities outside school.

A 2001 Florida study of high school seniors found that high-exercise groups reported better relationships with parents, less depression, lower levels of drug use and higher grade-point averages.

A 1994 nationwide U.S. study of ninth and 10th graders found that athletic participation had significant positive effects on grades, self-concept, locus of control, educational aspirations and discipline.

A number of other studies have found similarly positive relationships between academic achievement and athletic involvement, both in children and adults. The reason for this link has been the subject of a number of physiological studies. Subsequent findings and theories include:

- Higher grade-point averages for those in high-exercise groups are related to an increase in neurotransmitters such as serotonin. These levels increase performance on cognitive tasks.
- Exercise programs have a beneficial effect on the immune system. This would account for fewer sick days and more tolerance to stress.
- Human and animal studies show brain areas involved in movement and learning are intimately connected, and physical activity could increase those neural connections.
- Physical activity might alter arousal through neurohormonal mechanisms, which could improve a child's attention in the classroom.
- Other potential mechanisms by which additional physical education could enhance academic skills include: increased cerebral blood flow and enhanced oxygen consumption, changes in hormone levels, enhanced nutrient intake, and changes in body build and self-esteem.

In my opinion, involvement in activity/athletic pursuits does indeed have a positive impact on academic performance. My colleagues are reluctant to take a strong stand, which is demonstrated throughout the research — and in the number of researchers who later criticize their own results. Why this occurs is one of the questions I plan to pursue in the next phase of my research.

What does the positive impact of activity/athletic involvement mean for universities? At U of G, academic excellence is one of our most important goals. With this in mind, we need to support the areas that will affect and directly aid in the achievement of these goals.

Unfortunately, we tend to do the same thing that has occurred throughout history. We accept the theory that academics, in general, do not support athletic involvement because time involved in athletics takes time away from academics.

Our institution is looking at priorities in dollars spent and making plans about more "academic" pursuits such as high-calibre professors, better classroom facilities and more scholarship funding. I agree with all of these, but I also believe that support for athletics can have a positive impact on the total University population and can result in an increase in total academic performance. If we commit resources to areas that enhance academic performance, we will graduate more students at a higher level. Athletics is a program that should not be forgotten.

GRYPHON WRESTLER HAS A HEADLOCK ON SUCCESS

World junior champion is Canada's top female aboriginal athlete of the year

By LORI BONA HUNT

I EXPECTED TARA HEDICAN to be larger than life. The second-year history student is the first Canadian woman to win a world junior wrestling championship. She's also a two-time Canadian junior national champion and a three-time Canadian senior national silver medalist. This week, she received the Tom Longboat Award as the country's top female aboriginal athlete of the year, beating out competitors from all other sports. Her next goal is to be among the first women to wrestle at the Olympics.

I'm so sure I can pick her out of a crowd that I confidently tell her just to show up at a popular coffee spot on campus for our interview. Never mind that it's high noon in the world of coffee drinkers and that there's certain to be at least 100 other people around. Someone with her athletic ability and résumé of medals and awards must surely have an aura about her.

Good thing Hedicán spots me and my notebook first. The 20-year-old is shorter and smaller than I anticipated, with a quiet voice and a shy smile. Meeting her is a refreshing reminder that stereotypes are usually just that, and a reaffirmation of just how little I know about wrestling. It's a sport that relies as much on intellectual strength as physical prowess, Hedicán tells me.

"That's what I like about it. When you're out there on the mat, it's just you and your opponent. You don't have a team with you. I just take it one point at a time, one match at a time. I try not to look too far ahead."

That's the secret of her success, says Doug Cox, who coaches both the Guelph Wrestling Club and the Gryphon team. "Tara is strong and her technique is good, but her mental state is the best," says Cox, who, along with high school coach Mark Howlett and fellow Guelph Wrestling Club coach Dave Mair, has worked with Hedicán since her mid-teens.

"Once you're among the top 100 wrestlers, you're all basically at the same level and it becomes a mental game," says Cox. "This is where Tara shines. She thrives on competition. I think she likes the pressure."

Since enrolling at U of G, Hedicán, who also plays on the Gryphon rugby team, has captured gold at both the Canadian Interuniversity Sport (CIS) and the Ontario University Athletics championships and was named Most Outstanding Wrestler at both competitions. In addition, she won gold at the Dave Shultz Memorial Tournament in Colorado this year, was the 2001 Junior National's Most Outstanding Wrestler and Senior Provincial 2001 champion and received U of G's Mary Beverly-Burton Rookie of the Year Award.

Hedicán won the world junior title (a category for people under 20) last fall in Switzerland. She says standing atop the podium listening to *O Canada* furthered her ambition to compete in the 2004 Olympics, which, if efforts are successful, will be the first games to include women's wrestling.



"When I was still in high school, I told my coach: 'I want to be in the Olympics.' Women's wrestling wasn't even on its way to becoming an Olympic sport, but he just said: 'Go for it.'"

Cox, himself a former Olympian, says he knew from the start that Hedicán had what it takes to be a champion. "Here was this 15-year-old kid, showing up five nights a week to practise with the university students. She was always here on time, ready to get the job done."

And the same holds true today. I stop by the Athletics Centre one evening and find Hedicán out on the mats practising moves with other Wrestling Club members, flipping people over her shoulder and pinning them down with ease. She explains later that they were working on technique, which is why it looked effortless, and assures me that being slammed to the mat isn't painful. "Wrestlers hardly ever get injured. You only get hurt when you're up against someone who doesn't know what they're doing."

Hedicán, who is the daughter of Prof. Ed Hedicán, Sociology and Anthropology, has been wrestling since she was 12. She discovered the sport by chance.

"I was in junior high and heard they were looking for girls for

the wrestling team, so I just thought I'd give it a try."

She didn't realize just how good she was until high school, when "I hardly ever lost any matches. I have a bit of natural talent, but the main reason I do well is that I work a lot harder than most people do."

Hedicán, who wrestles in the 63-kilogram weight class, practises six days a week, in addition to running about six hours a week and weight training before competitions.

"Plus, I've been practising with university athletes since I was in Grade 10. I think that has given me an advantage."

Zoltan Hunyady was one of those university athletes. As a Gryphon, he was a CIS champion and a three-time All-Canadian and is still an active competitor for the Guelph Wrestling Club. He has considered himself Hedicán's teammate for the past five years.

"I was already in my third or fourth year at U of G when she started practising here," he says. "I knew right away she would be good. She is by far the most aggressive female wrestler I've ever seen and has a lot of natural ability. She's become a wonderful draw for the club — it's great to have the world junior champion here."

Hedicán has only recently begun to understand that being a champion often means being a role model.

"I guess younger athletes do look to me as an example," she says, adding — with just a hint of pride — that both her younger sisters wrestle. She also conducts sports clinics and gives motivational talks to children across the province.

The Longboat Award has special meaning for her as well. Growing up in Guelph, she didn't realize the effect her accomplishments might have on other aboriginal athletes. "I want to be someone that other aboriginal kids can look up to," she says.

For Cox, seeing Hedicán flourish in this new role is more satisfying than any of her athletic successes.

"When I first met her, she was so shy, she would look at the ground when you talked to her. Now she is very different. That's what is so great about sports — they can convert a kid from being shy to being self-confident by building up his or her self-esteem. With Tara, that's the greatest thing for me to have witnessed."

When it comes to the future, Hedicán isn't sure what she'll do after university, but she is certain about one thing: "Wrestling will always be in my life." She notes that many competitors continue into their 30s and even beyond.

"Wrestlers come in all different shapes and sizes — that's why I like it. Being short can be an advantage, being tall can be an advantage. There is room for all body types. It just depends on what you do with your body type."

Students to Present Papers at Montreal Conference

FIVE GUELPH STUDENTS will be presenting papers at a conference on globalization and post-colonialism April 5 in Montreal.

The conference, "Globalization and Post-colonialism II: Intimate and Interactive," brings together undergraduate and graduate students, writers, artists, scholars and curators to examine the relationships among art, politics and ethics. Students from McGill University and Université du Québec à Montréal will also take part.

"The conference will look at

questions of power and exclusion with regard to post-colonial theories, as well as the notions of cultural hybridity and centre/periphery in this age of globalization," says Prof. Susan Douglas, Fine Art and Music, the conference co-ordinator for Guelph.

Globalization would be a good thing if it meant universal access to education and technology, says Douglas. But all too often it means that people "who don't have access to resources are left behind."

And that, she says, affects the art world as much as it does other seg-

ments of the economy and society, when the world's top curators ignore works that don't fit their global view of great art.

The conference, the fifth in a series called "Definitions of Culture," is the result of a partnership that Douglas established 10 years ago with the Musée d'art contemporain de Montréal.

She specializes in Latin American art history and contemporary international art and theory. Some of the Guelph students presenting papers took her course on the visual arts of the Americas last year. Four are un-

dergraduates and one, Rob Winger, is an MA student in English.

Winger's paper focuses on "The 'Real' Thailand: Travel Writing's Occidental Quest for Authenticity."

Tamara Anderson will present a paper on the work of Cuban-born artist Ana Mendieta. Martha Grace Archibald explores the multi-sensory meanings of the sculptures of Doris Salcedo. Kristin Nelson's paper, "We Are All Zapatistas Now," looks at the relationship between the anti-globalization movement and the Zapatista uprising in Chiapas, Mexico. And Kelly Jazvac's topic is "Embrac-

ing Spirituality: Lessons for North American Visual Culture via the Art of Amalia Mesa-Bains."

"The conference gives the students an opportunity to present their ideas and papers to an informed international audience," says Douglas. "It's an opportunity for them to network with one another and to receive feedback on their work from some of the top intellectuals and academics in the world working in the field of globalization. For artists and others, globalization is really the topic that's going to determine the next decade."

By STACEY CURRY GUNN

Montreal Theatre Records Move to U of G Library

Documents will be important resource for researchers, students in Canadian theatre

THE PRINT RECORDS of Playwrights' Workshop Montreal (PWM) have found a new home in the U of G Library.

The PWM theatre centre was originally founded in Montreal in 1963 and has frequently helped break new ground about how plays should be developed by playwrights in Canada, says Lorne Bruce, head of archival and special collections in the library.

"From modest origins in the mid-1960s, PWM has grown considerably," he says. "Today, it handles more than 200 scripts a year and provides development guidance for more than 50 plays a year."

Bruce says the PWM archival deposit com-

plements many items already housed in the L.W. Conolly Theatre Archives, one of Canada's most extensive holdings of Ontario theatre resources. Named for Leonard Conolly, a former associate vice-president (academic) and chair of drama at Guelph, these archives consist of more than 100 separate theatre collections.

Playwrights' Workshop directors, actors and dramaturges work in both official languages and have a distinctly Canadian flavour, says Bruce. Some PWM activities since the mid-1980s include work with Canadian playwrights George F. Walker and Tomson Highway, whose papers reside at the U of G Library.

"The library also holds archives for similar organizations such as the Playwrights Union of Canada and Toronto Workshop Productions," says Bruce. "Together, these organizations form an impressive resource for researchers in Canadian theatre."

Guelph's new PWM collection consists of correspondence among artistic directors, board members, playwrights and theatres; information about publicity and fundraising projects; general financial ledgers; posters and programs; sponsors' information; minutes for directors and committees; festival presentations; scripts, plays and bulletins; and newsletters and other PWM publications.

The materials cover 35 years from 1963 to the late 1990s. Special collections staff are now compiling a detailed inventory.

"Researchers and students will be able to examine these documents to detail how PWM has been instrumental in exploring new ways to develop plays and the expertise of playwrights and also to expand opportunities for playwrights," says Bruce. "And it's expected that future deposits will be made to keep the collection contemporary with what is taking place in dramatic composition and theatrical representation across the country."

For more information, call Bruce at Ext. 2089.

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Award Enables Studies Abroad

Continued from page 1

Nepal with another Canadian student to visit small organizations that use volunteers from abroad. After gathering information about the needs of those organizations, the two students created a Web site to provide information for people interested in volunteering in India and Nepal. They have since expanded the scope of the Web site to countries around the world.

As her experience testifies, McLaughlin believes strongly in putting academic knowledge to a practical purpose. "There has to be some way of applying it to the world," she says, "or what's the point?"

Although academics are important to her, she considers them just one of her priorities. An active student leader throughout her years at Guelph, she has been a residence assistant and has served on Senate, Interhall Council and the Central Student Association (CSA). Her CSA work has included being orientation co-ordinator and organizing

the annual community barbecue. For orientation last semester, she helped stage a benefit concert to support the AIDS Committee of Guelph and Wellington.

Benefit concerts have become a Janet McLaughlin trademark over the years. At U of G, she's been involved in organizing several besides the AIDS event, including a Jamaicans for Justice concert and a benefit this month for Afghan refugees. Before travelling to India, she held a concert to raise money to install water pipes in a village there, so the local women would no longer have to walk five hours a day to get water.

"I love combining music and world issues," she says. "In fact, I'd really love to be a rock star and be able to speak out about world issues at the same time. Unfortunately, my voice isn't as good as my brain."

Her voice has, however, served her well. She often sings at the benefits she organizes and also plays piano and guitar. In January, "for a bit of fun," she put together a band called Silversol with three other students. They play every Monday night at the Brass Taps and hope to join the festival circuit this summer.

A prolific songwriter since high school, McLaughlin supplies much of the music for the band and is recording both a solo album of her own tunes and an album with the band. Her music, not surprisingly, is mostly political and often inspired

by her international development classes, but she does write the occasional love song because "love is the ultimate inspiration," she says.

For McLaughlin, one of the best parts about winning the Commonwealth Scholarship is that it leaves her free this summer to do all the things she loves, not having to worry about earning money for the fall. She's particularly looking forward to getting back to working one-on-one with AIDS patients instead of just raising money on their behalf.

"Spending time with AIDS patients has always been so enriching for me. I've learned so much about perspective, about hope and dignity, from people who are dying or ostracized by society."

After she earns her master's degree, McLaughlin hopes to do a PhD in the anthropology of human rights, then teach in Canada, where "there's a huge void in human rights studies."

Prof. Kris Inwood, Economics, director of the collaborative international development studies program, says McLaughlin's scholarship is well-deserved. "She is an outstanding student in every way. In and out of the classroom, she contributes intelligence, moral commitment and a gentle but surprisingly effective leadership. I am delighted for Janet and for the University of Sussex that the Commonwealth Scholarship enables her to study there."

BY BARBARA CHANCE



Enjoy the Farm in Our Backyard!

The Ignatius Community Shared Agriculture operation is expanding and invites you to join in our harvest of fresh, seasonal produce, grown according to organic certification requirements.

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An information session is being held in Ignatius Hall* at 7:30 pm on April 11, 2002

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*Ignatius Hall is in the former College at the Farm, Take Woolwich Street North past the Curling Club and the Cemetery. Follow the drive to the first entrance to the parking lot.

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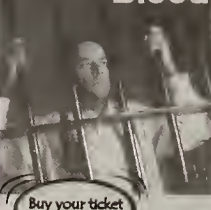
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LETTERS

NOT ALL SBAG MEMBERS OPPOSE TUITION INCREASE

I would like to clarify that the presentation made this month to Board of Governors on tuition increases was not made entirely at the full board meeting.

The full presentation was made at a meeting of the finance committee, where I represented my colleagues who agree that an increase in tuition is necessary for the continued quality of our university. The Student Budget Advisory Group (SBAG) is mandated to report to the finance committee, which was presented with both sides of student opinion on tuition increases.

I believe it's important to note that not all members of SBAG or the general student population are opposed to increasing tuition. I was happy to represent those opinions in drafting the SBAG report to B of G and presenting it to the finance committee. Those members of SBAG who presented to the board did so individually and not representing the opinions of the entire group.

Rex Crawford
OVC representative to SBAG

@Guelph welcomes letters to the editor. They should be limited to 500 words, signed by the author and submitted electronically. Send letters to Barbara Chance at b.chance@exec.uoguelph.ca.

Adding Up the Math for Medicine

Prof hopes to apply his math smarts to help doctors better interpret medical images such as CAT scans

THE WINTER OLYMPICS are several weeks behind us, but Prof. Heinz Bauschke's own quest for the mathematician's equivalent of the "fastest, highest, strongest" goes on.

The recently arrived professor in the Department of Mathematics and Statistics is continuing work he began during his graduate studies in optimization theory—or investigating the mathematics behind what's best, biggest or quickest.

Bauschke hopes to apply his math smarts to help doctors better interpret information contained in medical imaging devices, where a better image can mean improved diagnosis and treatment for patients.

He studies the mathematical algorithms behind medical images such as the CAT scans used in diagnosing brain tumours. Sketching intersecting ellipses and graphs on the board in his MacNaughton Building office, he explains that analysing these images involves interpretation and mathematical modelling to yield the clearest and most complete picture out of multiple images taken from numerous angles.

Mistakes in interpreting medical images can be serious, potentially even life-threatening. "Doctors need to understand which one is the best one," Bauschke says. From among several competing images, the question becomes: "Which one to pick?"

He joined U of G last summer from Okanagan University College



Prof. Heinz Bauschke

PHOTO BY MARTIN SCHWALBE

in British Columbia. A native of Germany, where he earned his undergraduate degree, he began his graduate studies at Dalhousie University.

He switched his thesis topic to optimization theory to follow his supervisor, Jonathan Borwein, first to the University of Waterloo, then to Simon Fraser University (SFU), where he completed his PhD on data reconstruction methods with applications in medical imaging.

He received SFU's Governor General's gold medal as top graduate student in 1997 and did post-doctoral work at Waterloo before joining Okanagan. He is still an associate member of SFU's Centre for

Experimental and Constructive Mathematics, but says Guelph's strengths and its ideal location make collaborations possible not only on campus but also with researchers at Waterloo, McMaster, Western and Toronto's Fields Institute.

Bauschke has also used optimization theory to help Internet service provider Packeteer, based in Cupertino, Calif., find a happy medium between the quality of its compressed Web-based images and file downloading time for customers. The company has filed a patent based on his number crunching, which yields the unlikely result that, at a certain point, making a virtual picture worse can actually improve it.

To explain this paradox, he gestures to two photos of his two-year-old daughter, Andrea, smiling out from his computer screen. Start at a typical resolution, called Q75. Reduce that number and you'd expect the image to progressively worsen.

Indeed, that's what happens—mostly. But a curious thing happens between Q50 and Q48. At the latter resolution, Andrea and her brown teddy bear become slightly more blurred but in a softened studio-image kind of way.

Explaining that the distinction involves some intricate mathematics, Bauschke says the paradox is another kind of optimization problem. "It blew us away."

He says the Web provider can use the information in compressing data to pack images efficiently and cost-effectively without sacrificing too much picture quality for customers. For their part, those customers are generally willing to trade off image quality for faster—and less expensive—download times. Bauschke's "blip" offers a way to provide slightly improved quality in a compressed image.

What he appreciates is the intellectual challenge, in a mathematical sense and in an esthetic sense, that involves mysteries of perception and sensitivity. "There is no way to compute and predict which one is more pleasing to the human eye," he says.

BY ANDREW VOWLES

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Low-Nitrogen Broccoli Hits High C

'I think we have an environmentally sensitive product here that could be the orange of Ontario'

LOOKING for a vitamin C boost? How about a handful of baby broccoli florets? Broccoli could someday be known as Ontario's orange, if growers and consumers embrace the results of a U of G research project.

The research, conducted by Simcoe research station technician Cathy Bakker, showed that the less nitrogen applied to broccoli crops, the higher the vitamin C content.

Raw broccoli is already considered a rich source of vitamin C, with

about a third more ascorbic acid by weight than an orange.

The study showed that reducing the amount of nitrogen applied to the crop raises vitamin C by as much as 13 per cent. The trade-off is that extremely low amounts of nitrogen result in "light, loose, misshapen" heads of broccoli, Bakker says.

But if the low-nitrogen broccoli were harvested early while the florets were still small and compact, "we could have a new product designed specifically to be marketed as a high-vitamin C product," says Prof.

Clarence Swanton, chair of the Department of Plant Agriculture, who supervised the research along with his colleague Prof. Alan McKeown.

"Because we're using lower nitrogen, we're not going to get the best yields, but we could be producing bags of high-vitamin C broccoli 'buds' already cut, ready for consumption," Swanton says.

And reducing nitrogen also means less contamination of streams, rivers and groundwater. Nitrate that winds up in drinking

water can be toxic to human health.

"I think we have an environmentally sensitive product here that could be the orange of Ontario," he says.

The findings on vitamin C are a bonus for the research project, which was originally designed to find the best balance between optimal broccoli yield and quality and the least amount of nitrogen fertilizer.

Bakker tested two varieties of broccoli and seven nitrogen application amounts. The results will lead

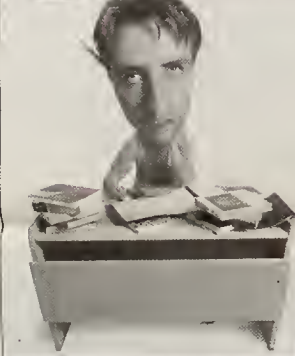
to recommendations on nitrogen use that will help growers respond to Ontario's proposed nutrient management legislation.

"If we don't know how much nitrogen the broccoli needs, we can't make good recommendations on its application," Bakker says.

More efficient management of nitrogen will also increase economic returns for farmers because fertilizer makes up a significant portion of production costs.

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1993 Starcraft Bowrider boat, 17-foot, 140-horsepower, Mercury engine; 1993 Starcraft trailer, Ext. 2038, 822-2769 after 5 p.m. or alexma@pr.uoguelph.ca.

Red 1950 Frigidaire, factory-restored, new compressor, converted to a keg fridge, 822-6637.

Four-bedroom house on half-acre lot two minutes north of Guelph, three baths, family room, sunroom, finished rec room, 821-1493.

Remnant carpet, brown, new, five by six feet; new blue suede shoes, women's size 8½, 822-0786.

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One bedroom in two-bedroom downtown apartment to share with vet student, available May 1, \$407 a month inclusive, Olivia, 829-3530 or ostone@uoguelph.ca.

Five-bedroom house downtown, non-smokers, no pets, available May 1, one-year lease, \$1,865 a month plus utilities, Christopher, 824-7754 or czimmerm@uoguelph.ca.

One bedroom in five-bedroom house for summer sublet, close to Stone Road Mall, available May 1 to Aug. 31, \$250 a month inclusive,

Genevieve, 767-1884 or gdniss@uoguelph.ca.

One-bedroom apartment to sublet, fully or partially furnished, laundry, parking, pets welcome, available May 1 to Aug. 31, \$500 a month inclusive, Trace, 837-8897 or mackayt@uoguelph.ca.

Two bedrooms in three-bedroom apartment, laundry, parking, non-smokers, female preferred, one-year lease beginning May 1, Christine, 829-3373 or dim@uoguelph.ca.

One bedroom in two-bedroom upper apartment, parking, laundry, female preferred, available immediately, \$440 a month inclusive, 763-9488 or hmoquin@uoguelph.ca.

Three-bedroom townhouse to sublet, close to campus, available now until Dec. 31 or longer, \$1,189 a month inclusive, Ext. 3176 mornings or 821-3092 evenings.

Bachelor apartment in south end, kitchen/laundry facilities, \$375 a month inclusive, Rose or Brad, 824-0245.

Bungalow, available July 1, \$1,300 a month plus utilities, 837-2728.

One or two bedrooms to sublet on College Avenue, laundry, air, swimming pool, close to mall, available April to Sept. 1, \$250 a month plus utilities, Julie, 763-4194.

Furnished one-bedroom condo for professional, washer/dryer, parking, non-smoker, no pets, available June 1, \$900 a month, 763-6954.

Two-bedroom cottage north of Sauble Beach, dishwasher, suitable for four, non-smokers, no pets, photos available, \$500 a week, leave message at 763-1236 or e-mail to bardwell@vth.uoguelph.ca.

Furnished room with private bath, laundry, close to Stone Road Mall and bus stop, no parking, available Aug. 1, \$425 a month inclusive, send e-mail to jrvincen@uoguelph.ca.

Furnished two-bedroom apartment to share with mature female professional, close to campus, parking, no pets, available May 1, \$500 a month inclusive, Ext. 2012, 780-0115 evenings or isokolov@uoguelph.ca.

Two rooms in basement of modern home in south end, separate bath and kitchen, laundry, parking, non-smokers, no pets, available May 1, references, 824-5440 after 5 p.m.

Furnished two-bedroom condo, ensuite laundry, available May 1, \$1,500 a month, Carol, 823-1857 or 731-1857.

WANTED

Sitter for two dogs and one cat for July, preferably in our home, free lodging in return, Lucy, Ext. 2390 or leird@uoguelph.ca.

Ride needed to Guelph-Humber daily in fall 2002, will share gas, Gisele, Ext. 6935.

Child studies student for occasional overnight caregiving for two school-aged children, south end, Sarah, 766-9564.

Two-bedroom house to rent in Guelph for early May for young married couple, 848-6787 or iburgess@uoguelph.ca.

One-bedroom apartment under \$700 a month inclusive for Aug. 1, James, 705-474-5797 or jbob19@hotmail.com.

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Hot tub cleaning, Doug, 766-4723 or dbutch01@uoguelph.ca.

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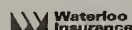
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Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays until April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks continue March 31 with "Here Comes Peter Cottontail!" and April 7 with "April Showers." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

"Take Time for Tea" is the focus of a workshop with author Melody Wren April 18 from 1:30 to 3 p.m. Cost is \$15. Registration and payment are required by April 4.

Naturalist Chris Earley leads a workshop on warblers April 24 from 9 a.m. to 4 p.m., with a morning field trip in the Arboretum May 11. Cost is \$63. Registration and payment are due April 10. A second workshop on less common warblers runs May 2 from 9 a.m. to 4 p.m. Cost is \$45. Registration deadline is April 18.

Watercolour artist Mary Hougham hosts a four-week workshop on art in the Arboretum April 27 and May 4, 11 and 25 from 10 a.m. to 12:30 p.m. Cost is \$135. Registration and payment deadline is April 12.

CONCERTS

The Thursday noon-hour concerts continue March 28 and April 4 with student soloists in MacKinnon 107.

FORUM

The School of Languages and Literatures Forum presents Prof. Dorothy

Ordarter-Wellington examining "Recent Trends in Spanish Fiction: Reading the X Generation" March 28 at 4 p.m. in the University Club.

LECTURE

The Guelph-Waterloo Centre for Graduate Work in Chemistry and Biochemistry will hold the 2002 Pfizer Synthetic Organic Lectureship April 8 at 3:30 p.m. in DC-1302 on the Waterloo campus. Jeffrey Winkler, Merriam Professor of Chemistry at the University of Pennsylvania, will speak on "Synthesis of Natural and Unnatural Products."

NOTICES

Peer helpers from Leadership, Service and Involvement Programs will give a PowerPoint presentation for faculty, staff and students March 27 at noon in UC 103. The presentation will provide an overview of the students' week-long service learning initiative with the University of British Columbia during reading week.

A PhD student working with Prof. Serge Desmarais, Psychology, is looking for participants for a study on growing up in a family with alcoholism. Participants must be aged 19 to 60, not currently abusing alcohol and with at least one sibling. Participants will be eligible for a random draw for \$250.

Students looking for a summer job no longer have to search through job boards at Career Services. All summer jobs will be posted on Campus Worklink (access code is gryphon) or Career Services On-Campus Recruiting. Check out www.campus-worklink.com/uoguelph and www.careerservices.uoguelph.ca. More

than 30 new jobs are posted each day.

A graduate student working with Prof. Alison Duncan in the Department of Human Biology and Nutritional Sciences is looking for healthy men aged 20 to 40 for a nutrition study to examine the effects of soy consumption on hormone levels. Compensation will be provided. For more details, call Ext. 8081 or send e-mail to bdilling@uoguelph.ca.

SEMINARS

"Evidence-Based Laboratory Medicine" is the focus of Matthew McQueen of McMaster University in the OVC seminar series March 27 at 12:30 p.m. in OVC 1714.

The Department of Plant Agriculture seminar series continues April 1 with Sean Cutler of the Scripps Research Institute in California outlining "Death, Division and Drugs — Perspectives From Live Cell Analysis in *Arabidopsis thaliana*." On April 8, Krzysztof Szczygowski of the University of Western Ontario and Agriculture and Agri-Food Canada considers "Long-Range Signaling in Plants: Feedback Control of Symbiotic Development in Legumes." Seminars begin at 4 p.m. in MacKinnon 031.

Next up in the Axelrod Institute of Ichthyology's seminar series is post-doctoral zoology researcher Erica Leder discussing "Char Wars: Arctic Char and Dolly Varden" April 2 at 12:30 p.m. in Axelrod 168.

"Morphogenesis in a Multicellular Prokaryote" is the topic of Justin Nodwell of McMaster University April 4 in the biochemistry seminar

series. On April 11, microbiology graduate student Nooshin Nakhai explains "Protein Engineering of *Aspergillus awamori* Glucoamylase." Seminars begin at noon in MacNaughton 222.

"An 'Exact' Numerical Approach to Calculating Diffusion Coefficients in Chemistry and Biology" is the focus of Gary Slater of the University of Ottawa in the Department of Physics seminar series April 2 at 4 p.m. in MacNaughton 113.

The Department of Pathobiology presents Prof. Jonathan LaMarre, Biomedical Sciences, discussing "Regulation of Gene Expression During Hepatocyte Growth" April 12 at 2 p.m. in Pathobiology 2106.

TEACHING SUPPORT

Teaching Support Services offers hands-on training in learning technologies for instructors, TAs and instructional support staff. Coming up next month are "HTML II: Creating a Course Web Site" April 3, "WebCT Advanced Series: Session III: Managing Content" April 10, "Using Photoshop to Optimize Images for Teaching" April 12 and "Producing Quality Digital Audio for Teaching" April 16. Full descriptions of all workshops can be found on the Web at www.tss.uoguelph.ca. Online registration is required.

THESIS DEFENCES

The final examination of Michelle Brear, a master's candidate in the Department of Psychology, is April 1 at 2 p.m. in MacKinnon 132. The thesis is "The Effects of Violence and Multiple Perpetrators on Eyewitness Identification With Visual and

Audio-Visual Lineups." The adviser is Prof. Thom Herrmann.

The final examination of Melanie Storooschuk, an MA candidate in the Department of History, is April 3 at 2 p.m. in MacKinnon 132. The thesis is "Imperialism, Ideology and Injustice: U.S. Intervention in Chile During the Allende Years, 1970-1973." The adviser is Prof. David Murray.

The final examination of PhD candidate Carolyn Callaghan, Zoology, is April 8 at 2 p.m. in Axelrod 265A. The thesis is "The Ecology of Gray Wolf (*Canis lupus*) Habitat Use, Survival and Persistence in the Central Rocky Mountains, Canada." The advisers are Prof. Tom Nudds and Dave Lavigne.

WORKSHOPS

Computing and Communications Services is offering workshops for faculty and staff this winter through Human Resources. Upcoming sessions include "Intro to Dreamweaver" April 3 and 9, "Corporate Time Designates" April 4 and "Getting Around Basic Images for the Web" April 12. Details are on the Web site www.uoguelph.ca/ccs.

COMMUNITY VENTS

The Royal City Ambassadors, directed by Prof. Ken Fisher, Biomedical Sciences, perform a tribute to Guelph's 175th anniversary April 13 at 7:30 p.m. at the River Run Centre. For tickets, call 763-3000.

The Guelph Spring Festival is looking for donations for its annual garage sale, to be held April 14 from noon to 3 p.m. at Guelph Farmers' Market. For pickup, call 821-3210.

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Two More Canada Research Chairs Named at U of G

Psychology professor, botanist recognized for potential to become world leaders in their fields

U OF G has been awarded two more prestigious Canada Research Chairs, Industry Minister Allan Rock has announced. It brings to nine the number of Guelph's funded research chairs, worth more than \$12 million in total funding when federal and provincial infrastructure support is included.

Prof. Serge Desmarais, Psychology, and Brian Husband, Botany, will each receive \$100,000 annually for five years as Tier 2 research chairs. Tier 2 chairs are considered by their peers to have the potential to become world leaders in their fields.

Desmarais will hold the Canada Research Chair in Applied Social Psychology, examining perceptions and consequences of gender-based pay inequity. Husband will hold the Canada Research Chair in Plant



Prof. Serge Desmarais

Population and Evolutionary Biology, studying key aspects of plant sexual reproduction and the resulting gene exchange, and developing a framework for evaluating the effect



Prof. Brian Husband

of the exchange on populations.

Prof. Alan Wildeman, vice-president (research), says Husband's work "will elevate the University's reputation for strength in life sci-

ences and biological research on the national and international stages. It will also contribute significantly to economic activity in several sections of Canada's economy: biotechnology, agriculture and biodiversity. The same can be said for Prof. Desmarais's research, which will delve into a crucial area of social research: how our work experiences shape who we are and, in turn, affect the world we live in."

Desmarais, already known internationally for his research on gender inequity, plans to pursue his work further as a Canada Research Chair. He will focus on three themes: re-analysing current entitlement theories, including looking at the factors that contribute to our entitlement perceptions; investigating the consequences of pay entitlement for peo-

ple's work and home lives; and examining the human resources policies in workplaces that may be affected by documented gender differences in pay entitlement.

"It's been 25 years since feminist theory entered the general public's consciousness," he says, "and there have been several landmark legal decisions affecting both government and major corporations. Despite these facts, however, pay inequity between men and women who perform equal tasks remains a reality in many sectors of society."

Desmarais, who has already published three books, 15 papers and numerous book chapters on various aspects of gender inequity, will look at how people's work

Continued on page 10

Study to Explore Health Effects of Climate Change

University, government collaborators receive support from Health Canada for three-year research project

IT DOESN'T TAKE a scientist to figure out that the climate changes being experienced around the globe must be having an effect on human health. But pinpointing exactly what the health effects are, when and where they're likely to occur and what to do about them is another matter.

"Deciding how to best prevent problems is difficult because existing scientific information on weather-related health impacts in Canada is insufficient," says Prof. David Waltner-Toews, Population Medicine.

He and a team of researchers hope to change that, starting with a look at waterborne diseases. They recently received almost \$300,000 from Health Canada's health policy research program for a three-year project. The team also includes Health Canada researchers Dominique Charron, Jeff Aramini and Jeff Wilson (also an OVC professor) and scientists Abdel Maarouf, Robert Kent, Tom Edge and Ted Yuzyk of Environment Canada. Together, they will investigate the incidence of waterborne illness in Canada, examine the relationships between cli-

mate and enteric disease and project the potential health effects of global environmental change.

Theirs is among the first federally funded projects looking at the connection between climate changes and human health.

"Weather is often a factor in triggering waterborne disease outbreaks, especially extreme weather changes," says Waltner-Toews. "We hope to provide evidence at a national level of the association between climate change and waterborne illness, identifying those links of greatest importance."

Recent waterborne disease outbreaks have alarmed Canadians and stepped up pressure for political action, he says. In Walkerton, seven people died and 2,300 became ill in May 2000 after excessive rainfall caused runoff to contaminate a well, resulting in an outbreak of *E. coli* O157:H7. In July 2001, elevated water temperatures resulted in bacterial overgrowth in drinking-water reservoirs in St. John's, Nfld.

Charron adds that future problems could include intense thunderstorms, high winds, tornadoes and

Continued on page 3



Graduating political science student Rich Appiah is this year's winner of the Brian D. Sullivan Student Leadership Award.
PHOTO BY DEAN PALMER/THE SCENARIO

They're the Tops!

Awards recognize outstanding contributions to student life, community

STUDENT LEADERS were honoured for their contributions to U of G, student life and the Guelph community during a special "Last Lecture" and at an awards banquet April 2.

The Brian D. Sullivan Student Leadership Award, established in honour of Brian Sullivan, who served as associate vice-president (student affairs) from 1988 to 1999, was presented to graduating political science student Rich Appiah.

This award recognizes a graduating student who has made significant

contributions to student leadership through her or his involvement as an elected or appointed student representative at U of G. Appiah, a President's Scholar, serves on Senate, is a member of the Senate Executive Committee, is chair of the Judicial Committee, has served as both president and chair of Interhall Council and has been a member of the Central Student Association board of directors.

The award was presented during the "Last Lecture," a first-time event that Appiah organized as an oppor-

tunity for graduating students to celebrate and reflect on their experiences at Guelph. A student, a faculty member and a U of G graduate spoke at the event.

At the following awards banquet, the Andre Auger Citizenship Award, named for Andre Auger, who served as director of the Counselling and Student Resource Centre from 1973 to 2000, was presented to Paula Richardson, who will graduate this summer with a BA in international development studies. This award

Continued on page 9

DIRECTOR, CENTRE FOR INTERNATIONAL PROGRAMS

Applications and nominations are invited for the position of director, Centre for International Programs, at the University of Guelph. As the University's international liaison officer, the director is expected to work closely with the provost, vice-president (research) and deans to provide leadership in all the University's international activities, including developing and strengthening strategic alliances with international partners, promoting international research and academic partnerships, and internationalizing the curriculum. The director also oversees the operation of the Centre for International Programs and serves on Senate and the Senate International Committee.

The successful candidate will be an innovator with a high profile in international research, teaching or administration, a strong knowledge of traditional and emerging communications strategies, outstanding interpersonal skills, and an ability to build partnerships and effect positive change in a dynamic university environment. It is expected that candidates will be familiar with international funding and granting agencies and will have experience living and working in other countries. The term of office is five years, renewable for five additional years, and will commence in the summer semester 2002.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minority groups and women. All qualified candidates are encouraged to apply, but Canadians and permanent residents will be given priority.

Salary and rank will depend on qualifications and experience, although it is expected that the successful candidate will be eligible for a senior academic appointment. Applications should be accompanied by a detailed curriculum vitae and the names of at least three referees. Letters of nomination should include biographical details of the nominee. The deadline for applications and nominations is April 25, 2002, or until a suitable candidate is identified. They should be sent to:

Prof. Isobel Heathcote
Dean of Graduate Studies
Level 3, University Centre
University of Guelph
Guelph, Ontario N1G 2W1

UNIVERSITY
of GUELPH

Review of Employment Systems Completed

Committee to make recommendations to be included in draft employment equity plan

U OF G HAS TAKEN another step towards strengthening its commitment to employment equity efforts on campus by completing a review of its employment policies, practices and procedures, says Patrick Case, director of human rights and equity. The review, which followed on the heels of a workforce analysis that gave the University a picture of the composition of its workplace, was designed to see if there are barriers to equity in Guelph's employment systems.

Conducted by consultants working under the direction of Case and the Employment Equity Committee, both the workforce analysis and employment systems review (ESR) followed guidelines established by the Federal Contractors Program. This program requires organizations to institute employment equity plans to remain eligible for federal contracts worth \$200,000 or more.

The program's guidelines state that employment equity is achieved when members of four federally defined designated groups are represented in proportion to their

availability in the labour market. The designated groups are Aboriginal Peoples, persons with disabilities, visible minorities and women. For the University's purposes, the ESR also included lesbian, gay, bisexual, transgendered and transsexual persons. All of these groups have been historically disadvantaged in employment.

Based on the workforce analysis, the consultants concluded that, although progress has been made in a number of areas, particularly employment equity for women, members of the four designated groups are all under-represented in varying degrees on U of G's main campus and at its satellite colleges. The goal of the ESR was to identify probable explanations for this under-representation and suggest solutions.

To this end, the consultants examined policies and procedural documents relevant to U of G's employment practices, then consulted with employees and other interested parties about the implementation of these policies and procedures. The

consultation involved respondents from various constituencies on both the main and satellite campuses, including faculty, staff and managers, as well as employee unions and associations.

Case says a summary report has been prepared from the main body of the consultants' ESR. The Employment Equity Committee will be asked to analyse the report and the consultants' observations with a view to making recommendations to be included in a draft employment equity plan.

"The plan will outline priorities, timelines and responsibilities," he says. "It will include achievable goals and timetables for action and implementation, as required under the Federal Contractors Program. And it will guide initiatives for achieving a representative workforce and enhancing the climate for human rights and equity on campus."

The summary report prepared from the consultants' report will soon be available on the University's Web site at www.uoguelph.ca/hre/ceindex.htm.

OAC Honours Supporters

New Dundee couple inducted into the Order of OAC

OAC ALUMNI and longtime volunteers Dennis and Pat Mighton of New Dundee were two of the many dedicated supporters honoured at the college's annual recognition banquet April 1.

The Mightons were inducted into the Order of OAC, which acknowledges significant financial contributions through endowed donations that enrich the teaching and study of agriculture, food, the environment and community and rural development.

The couple met at OAC, where she earned a degree in dairy science and he completed a degree in agricultural economics. They married in their graduating year, 1964.

Pat Mighton, who went on to earn a master's degree in rural development in 1993, served as executive director of Ontario's Advanced Agricultural Leadership Program from 1987 to 1997. Her contributions to the college also include serving as president of the OAC Alumni Foun-

dation and the OAC Alumni Association and as the association's representative on Senate from 1998 to 2001.

Dennis Mighton taught agriculture for many years at Waterloo Oxford District Secondary School in Baden and is an active volunteer in many community groups.

"We are grateful to OAC for the major impact it has had on our lives, both professionally and personally," he said at the banquet. "This gift is one of the ways we can show our appreciation for the tremendous impact the college has had on us."

The 2002 OAC Outstanding Service Award recognized George Underwood, who operates a farming enterprise near Wingham that includes beef cattle, turkey and cash crops, as well as a grain elevator and soybean processing plant.

Underwood and his sons, John and Nelson, both OAC graduates, have for more than 12 years shared their entrepreneurial and innovative

business and agricultural experiences with U of G students through lectures, farm tours and discussion groups. The award citation notes that "both diploma and degree students have benefited from exposure to their influence in farm business management, agricultural technology and rural community issues."

Underwood also helped with the transfer of the archival collection from the Country Heritage Experience (Ontario Agricultural Museum) at Milton to the McLaughlin Library.

The college also presented "Co-operators" certificates of appreciation to 38 individuals who made important volunteer contributions to OAC's research, teaching and service programs in the past year. And the Agri-Food and Rural Volunteer Recognition Award honoured 19 people who are making a difference through agri-food and rural community activities.

BY STACEY CURRY GUNN



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VP CANDIDATES SPEAK

Two U of G faculty members have been selected as finalists for the position of associate vice-president (research) and will give public presentations this month. Acting CBS dean Anthony Clarke, a faculty member in the Department of Microbiology since 1986, will speak April 12 at 9:10 a.m. Prof. Chris McKenna, chair of the Department of Economics and a Guelph faculty member since 1989, will speak April 19 at 10:10 a.m. Both talks are in Room 113 of the MacNaughton Building. Members of the University are invited to attend and submit their written comments on the candidates to search committee chair Prof. Alan Wildeman, vice-president (research).

TOP ATHLETES HONOURED

The Department of Athletics held its annual awards night March 27. Sharing the honours as Female Athlete of the Year were Tara Hedin and Michaela McClure. Co-winners of the Male Athlete of the Year award were Reid Coolsaet and Jamie Cox. Rookies of the year were Bryan McMillan and Lindsay Trimble. Awards for sportsmanship went to Kristina Rody and Peter Sullivan. President's trophies for top student-athletes were presented to Leanne Rowthorn and Mark Halfpenny. Other major award winners were Katie Dixon (Shirley Peterson Award), Joe Varamo (Dr. John T. Powell Award), Lee Wicksted (Dr. James McLachlan Trainer of the Year), Jessie Gartshore (Cathy Rowe Manager of the Year) and Mike Palmer (Don Cameron Trophy).

WRITING CONTEST OPEN TO HIGH SCHOOL STUDENTS

The School of Literatures and Performance Studies in English and Stone Road Mall are sponsoring the Stone Sky 2002 Literary Competition for secondary school students. There are three major categories: fiction; poetry; and dramatic monologue or dialogue. Nine prizes of gift certificates will be awarded. Competitors are limited to one story of five to 10 pages, three poems up to a maximum of six pages, and one dramatic monologue or dialogue five minutes in length. Submissions are due May 15 and should be sent to: Stone Sky Competition, Massey Hall.

HISTORICAL BUILDINGS OPEN THEIR DOORS

Doors Open Guelph, a joint initiative of the Guelph Arts Council and Guelph LACAC in celebration of Guelph's 175th birthday, runs April 27 from 10 a.m. to 4 p.m. Seventeen Guelph buildings will open their doors for free public tours throughout the day. The buildings include Wellington County Court House and Jail, Church of Our Lady and, here on campus, Zavitz Hall and the Food Science Building. For more information, call 836-3280 or visit the Web site gac@sentex.net.

Researchers to Identify Risk Factors, Suggest Strategies

Continued from page 1



Prof. David Waltner-Toews is a member of one of the first federally funded projects looking at the connection between climate changes and human health. PHOTO BY MARTIN SCHWALBE

snowstorms. Such extreme weather may flush manure, human sewage and wildlife and pet droppings into surface and drinking water.

"We want to have a system in place to prevent problems," she says. "After a heavy rainfall, for example, we don't want to wait for the contamination to hit the wells."

The project team will begin by reviewing the scientific literature linking climate changes to waterborne illnesses nationally and internationally. They will also study the history of waterborne disease outbreaks in Canada, looking for links between weather and water quality.

The research team includes scientists who will integrate the best information on the causes of waterborne disease into models of climate change. They will identify vulnerable regions in Canada and how the expected environmental

changes will affect human health, specifically waterborne disease outbreaks and hospitalizations.

"We will focus on areas most likely to be dealing with extreme weather changes," says Charron. "This would include areas or regions in Alberta, British Columbia, Ontario and Newfoundland."

They plan to compile a final report for policy-makers that will detail the incidence of waterborne illness and relationship to weather changes, identify risk factors and suggest strategies for prevention and adaptation.

"This project is important because it addresses two important issues relevant to the health of Canadians: the risk of waterborne illness and the health effects of global climate change," says Waltner-Toews.

"But it is also unique because it is

addressing these complex issues in a collaborative way. We have people from the University and various government agencies looking at all the different layers, so we can fully understand the problems and decide together what to do about them."

This is the latest in a string of climate-related research projects under way at U of G. Last year, it was announced that the agricultural research node of the Canadian Climate Impacts and Adaptation Research Network (C-CLARN) would be housed at Guelph. Headed by Profs. Ellen Wall, Environmental Sciences, and Barry Smit, Geography, it promotes information exchange and facilitates research on climate change adaptation in Canada's agricultural sector. Both climate projects are housed in the Faculty of Environmental Sciences.

BY LORI BONA HUNT

U of G Marks City's 175th With Lecture, Exhibits

IN CELEBRATION of the city of Guelph's 175th anniversary, the College of Arts is hosting a special lecture about the city's founder, John Galt, April 12.

University professor emeritus Gil Stelter, Department of History, will present "John Galt and Guelph: A Writer's Imagination and the Creation of the Community" at 7 p.m. in Room 114 of the MacKinnon Building. The event is free and open to the public.

Stelter has written and lectured extensively about Galt, who founded the city in 1827 (see "Insight" on page 6).

Books and materials on Galt are now on display at the McLaughlin Library in recognition of the city's anniversary. The display runs until the end of April in the archives and special collections section.

From May to August, the library will stage a display of archival materials on the history of the Guelph Spring Festival. From September to December, the library presents books and archival materials on Gordon Couling and heritage in Guelph. The displays are open to the public from 8:30 a.m. to 4:30 p.m. Monday to Friday.

The Macdonald Stewart Art Cen-

tre celebrates the city's anniversary with the largest group exhibition in the gallery's 20-year history. "Guelph 2002," featuring the selected works of 80 artists, is on view beginning April 11. The opening reception April 18 at 7:30 p.m. kicks off with a video projection by Dawn Matheson titled *If These Walls Could Speak... Scenes From the Century in Downtown Guelph*.

Two other current art centre exhibits also mark the anniversary celebration: "Greg Denton: 'anyone lived...'" and "Historical Views of Guelph." Both shows continue until July 14.

PEOPLE

TOXICOLOGIST RECEIVES ACS RESEARCH AWARD

Prof. Keith Solomon, Environmental Biology, director of the Centre for Toxicology, received the ACS International Award for Research in Agrochemicals from the American Chemical Society's agrochemical division at the ACS national meeting this week in Florida. Solomon has more than 30 years' experience in research and teaching in pesticide science and environmental toxicology and has contributed to more than 150 scientific publications and reports. In addition, a paper co-authored by Solomon received an award as ecological risk assessment paper of 2001 from the journal *Human and Ecological Risk Assessment*. The paper is titled "Chlorpyrifos: Ecotoxicological Risk Assessment for Birds and Mammals in Corn Agroecosystems."

TWO GUELPH FOOD SCIENTISTS HIGHLY CITED

Two U of G food scientists are among the most highly cited scientists in their field, as reported by the Institute for Science Information. They are Prof. Doug Dalgleish, who holds the Research Chair in Dairy Technology, and retired professor Dave Stanley.

CO-OP STUDENTS EARN HONOURABLE MENTIONS

Joe Buttigieg, U of G's nominee for the Canadian Association for Co-operative Education's Co-op Student of the Year Award, was one of three students to receive an honourable mention in the national competition. Buttigieg is a third-year B.Comm. student in the agricultural business co-op program who did a co-op placement at Nestlé Canada Inc. Heather Anderson, a student in the marketing management co-op program, received an honourable mention in the 2001 Ontario Global Traders Awards announced recently by the Ontario Ministry of Economic Development. She was recognized for her efforts during an eight-month co-op placement with the Ontario Ministry of Agriculture, Food and Rural Affairs.

PLANNING STUDENT NAMED TO PROVINCIAL COUNCIL

Melanie Williams, a first-year master's student in the School of Rural Planning and Development, has been named provincial student representative on the Ontario Professional Planners Institute Council. She will attend council meetings to represent the student interests of all provincial planning schools.

IN MEMORIAM

RETIRED staff member Frederick Naylor, who served the University as a blacksmith for many years, died March 26 at age 77. He is survived by his wife, Hazel; three children, Marlene, Ken and Phil; seven grandchildren; and three great-grandchildren.

TOWARD 2010

University Committed to Quality Education in Midst of Growing Pressures

Editor's note: This column was written by Prof. Alastair Summerlee, provost and vice-president (academic).

APPPLICATION DATA for fall 2002 released by the Ontario Universities' Application Centre (OUAC) have sparked increased attention from the media about how Ontario universities are preparing for the double cohort.

Guelph has been engaged in strategic enrolment management since 1995, and the planning process has been carefully managed to ensure that the University is able not only to respond to the demands of additional students, but also to be socially responsible in accommodating its share of the double cohort enrolment.

Guelph submitted an enrolment plan to the government in 2000 and has updated that plan as new information has been received on applica-

tion rates. In 2003/04, the double cohort year, U of G expects to take approximately 500 additional students at its main campus and a total of about 900 at Guelph-Humber.

Meanwhile, construction has begun on the new classroom complex and the Guelph-Humber building, and plans are well under way for the new science complex. In addition, the University has been renovating classrooms as funding permits and, provided the government allocates sufficient money for upgrading facilities, will continue to renovate space and upgrade teaching classrooms and laboratories. The capital campaign will also provide support for these facilities' needs.

As the number of students grows on campus, pressures will begin to show in terms of access to classrooms, study/learning space, residences and social space. Accommodating the increased cohort will be felt across the University, but we

are committed to providing the best possible quality of education for our students and preserving Guelph's uniquely supportive and innovative learning environment.

And the pressures may intensify. The recent data from OUAC indicate that applications to Ontario universities are up on average by 21 per cent, compared with an anticipated 12 to 15 per cent. U of G's application numbers are higher than the average at almost 25 per cent.

Previous enrolment modelling predicted that the effect of the double cohort would be spread over a number of years. The latest figures confirm that this is likely to be the case because some students will fast-track while others will probably take more time to graduate. At the same time, there has also been an unexpected increase in the systemic participation rate.

President Mordechai Rozanski, as chair of the Council of Ontario

Universities, is working closely with other Ontario universities to ensure that qualified students who apply to university, but this will depend on whether the necessary provincial funds are made available. In that context, Guelph intends to adhere to its original enrolment plan target for fall 2002.

The University is well aware that as we grow, so do some of the pressures on the communities that surround us. Guelph has traditionally been a residentially intensive university; it is part of our culture and ethos. We intend to remain residentially intensive and have developed, in parallel with academic and staffing planning, an approach to residence development that will continue to provide campus residence spaces for about 40 per cent of all undergraduate students.

The development of our campus master plan will help us plan more

effectively to deal with some of these issues.

As with most of the activities at Guelph, dealing with these complex issues is not easy. It requires a balance of approaches, commitment and patience. The University is now preparing for the official "double cohort year" of 2003, but I want to stress that U of G has always anticipated that the effect of the double cohort would be spread over at least three, if not four, academic years and that we would continue to find ways to accommodate the additional students while providing quality education and enhancing our capacity to do research. We are also committed to protecting the integrity of the work environment for faculty and staff and being watchful of the impact of growth on the local community.

This column will continue to keep you updated on these issues in the months ahead.

Familiar Faces, New Appointments



Elliott Currie



Allan Dyer



Rob Foster



Jim Mahone



Peter van Straaten

AS PART of a continuing series of profiles on faculty members who have joined U of G over the past year, we introduce the following professors. Their faces will be familiar to many Guelph students, staff and faculty because these recent additions to the faculty complement have already been teaching and conducting research here as staff members and on contract.

ELLIOTT CURRIE

Assistant professor, Agricultural Economics and Business

Background: MBA, McMaster University; Certified Management Accounting Designation, Society of Management Accountants of Ontario

Teaching objectives: To assist the learner, individually and in groups, to appreciate the complex world in which businesses and organizations and their people function, the ultimate goal of which is to help develop thinking, contributing members of our society.

Research objectives: To develop

evaluation and control systems for small and medium enterprises, with special focus on the transition phase from one generation to another, during which there is significant strategic flux in all organizations.

Attraction to U of G: Guelph is in the centre of the entrepreneurial heartland of Canada/Ontario, with international links in diverse areas of study. The eclectic makeup of classes and faculty enable and encourage divergent and creative thinking and research.

ALLAN DYER

Associate professor, Computing and Information Science

Background: B.Sc. and M.Sc., University of Guelph

Teaching objectives: To establish a learning environment where students can use computers to successfully complete tasks related to their living and working setting that build confidence and maturity. To encourage students to be actively involved in modern computing trends and take responsibility for

their actions in the "Information Age."

Research objectives: To determine the student factors that lead to academic success.

Attraction to U of G: I have represented the University of Guelph around the world. Internationally, it is one of the best-known and most-respected Canadian universities. I feel at home here.

ROB FOSTER

Associate professor, Pathobiology

Background: B.V.Sc. (Hon.), University of Queensland; PhD, James Cook University of North Queensland, Australia; MAC V.Sc. Diplomate, ACVP

Teaching objectives: To help students learn the many aspects of veterinary pathology and to use knowledge of the principles of pathology to understand, diagnose and treat diseases of all species.

Research objectives: I plan to be involved in collaborative research in reproductive pathology.

Attraction to U of G: Worldwide recognition of the department in diagnostic veterinary pathology.

JIM MAHONE

Associate professor, School of Rural Extension Studies

Background: B.Sc. (engineering), U.S. Coast Guard Academy; PhD (physiology) and PhD (animal husbandry), Michigan State University

Teaching objectives: To provide students with the theoretical knowledge, skills and confidence to be effective leaders and facilitators in rural development.

Research objectives: To understand the interrelationships necessary to build leadership capacity in rural communities, with particular emphasis on trust building, commitment to values and networking.

Attraction to U of G: Its commitment to rural leadership development, both nationally and internationally.

PETER VAN STRAATEN

Associate professor, Land Resource Science

Background: Dr. rer. nat., University of Goettingen, Germany. Worked for eight years for United Nations agencies.

Teaching objectives: To create an understanding of the interrelationships among geology, agriculture and the environment; to demonstrate the importance of geological processes and materials in soil formation and soil management.

Research objectives: To develop the interdisciplinary science of agrogeology (geology in the service of agriculture) for soil fertility replenishment in Canada and developing countries (especially Africa), to contribute to research and development in environmental earth science.

Attraction to U of G: The University of Guelph recognizes the uniqueness and potential of interdisciplinary research and development in the fields of agrogeology and environmental earth science.

Retirees Are Strong Supporters of Campus

OUR COVERAGE of the campus community campaign in recent weeks has focused on the projects initiated and supported by the campus community to enrich the working, teaching, learning and research environment at U of G. This week, the spotlight is on a segment of the community whose contributions of time, energy and financial support over the years have created the University we know — retirees.

As retired faculty member Mary Beverley-Burton, a co-chair of the campus community campaign, puts it: "Retirees are the people who have made the University what it is today."

As a group, U of G retirees are strong supporters of the University. Their gifts of time and financial support are, in many cases, the result of close associations formed with students and colleagues over the years, as well as a keen understanding of the possibilities their gifts can create.

Here are just a few of these many special people.

* * *

Retired staff member Mary Rae has great memories of the more than 30 years she worked in the dean's office at the Ontario Veterinary College, beginning in 1949. "I enjoyed my work very, very much and I had many friends on campus," she says. "It was like a family then."

For much of Rae's time on campus, the institution consisted of just the veterinary and agricultural colleges and Macdonald Institute. Things have changed a lot since then, she says, but something that remains the same is the University's continued need for support, both financial and moral.

"I support the University and the veterinary college because they are both very worthwhile," says Rae. "I like to direct my contributions where I feel they are best used."

Something that benefits from her giving is OVC's C.A.V. Barker Museum of Canadian Veterinary History. The only veterinary museum in Canada, it holds more than 10,000 artifacts, including veterinary instruments and equipment, photographs and even academic gowns that once belonged to famous OVC graduates. More important, its materials have formed the basis of three books detailing the history of veterinary medicine in Canada.

"The museum really is a worthwhile place," says Rae. "It is used by people the world over."

The museum is named for its creator, OVC graduate and Univer-



Retired faculty Carole and Don Stewart continue to give generously of their time and money to the University. PHOTO BY MARTIN SCHWALBE

sity professor emeritus Cliff Barker. A prominent theriogenologist, Barker was a faculty member at OVC from 1945 to 1984. He completed some of the earliest work on artificial insemination in swine and developed the first artificial breeding course and frozen semen laboratory in Canada.

Rae remembers Barker well. "He made a big difference to the veterinary college — he helped build the college. I always thought very highly of him, his work and his efforts to establish the museum. Without him, we wouldn't have all of that."

* * *

For retired geography professor Fred Dahms, it's students who have always held a special place of importance in his thoughts — and in his giving to the University.

"Geography students and faculty members have always been very close," says Dahms, who retired officially in 2000 but continues to work regularly on campus.

"We go on field trips together and often sit around in desperate conditions, talking and analysing data. Really good relationships are formed in the department between the professors and students."

So much so that he and other faculty in the Department of Geography still hear from students who graduated 20 or 25 years ago. "They will still e-mail or come by."

Because of those relationships, Dahms says anything he and other faculty can do to support their students is important.

In line with that, and in recognition of Dahms's contributions to the department, his colleagues established the F.A. Dahms Geography Alumni Scholarship when he retired. To be awarded for the first time in 2002, it will give \$500 annually to full- or part-time undergraduates who have completed 15 credits in the major honours geography program.

During his years at Guelph, Dahms himself has supported several memorial funds aimed at students and donated money to the library. "I have not been a huge giver. I have just given steadily because I really feel we should support our students."

A founding member of the Department of Geography in 1966, Dahms also served as department chair from 1968 to 1974. Initially an urban geographer, he has focused his research in recent years on small towns. His most recent book, *Beautiful Ontario Towns*, analyses 10 places in western Ontario. Three more books on different areas of the province are in the works.

In his spare time, Dahms writes for the *Guelph Mercury* on planning issues, as part of the paper's community editorial board. He is also a member of Smart Guelph, an initiative to map out the city's growth over the next 25 years.

* * *

Ensuring that the U of G Library remains one of the best university libraries in the province — if not the country — has been one of retiree Ellen Pearson's goals for almost a quarter of a century. That's why she gives to the library.

The former associate librarian and information services specialist, who retired in 1992, says university libraries are rated on their collections, and when it comes to U of G, its special collections are among the best anywhere.

"The theatre archives are just excellent, particularly the George Bernard Shaw collections," she says. "The Lucy Maud Montgomery collection is tremendous, and the Scottish collection is among the top three such collections in the world."

Pearson knows whereof she speaks. Leaving a job in Ottawa with the National Science Library at the National Research Council, she joined the U of G Library in 1969, less than a year after it had moved into the McLaughlin Building. She spent the next 23 years in the building, helping both the library's collec-

tions available to users quickly and cheaply, to work with a computer company to develop an online catalogue and to do co-operative work with colleagues at other institutions.

Living with her husband, Bill, a retired dean of science from the University of Waterloo, on their 30-acre property near Ariss, Pearson has kept busy since retirement. Over the years, in addition to giving financially to U of G, she has donated her time to several community organizations, including the Guelph Arts Council, Elora Festival Singers and Third Age Learning-Guelph.

"Giving time is as important as giving money," she says.

* * *

It's a generally accepted fact that when it comes to government funding — both federal and provincial — the sciences have always done much better than the arts. When it comes to grants and scholarships for arts students, say retired philosophy professors Don and Carole Stewart, the Social Sciences and Humanities Research Council has only a fourth of the money to allocate as its science counterpart, the Natural Sciences and Engineering Science Council.

And that's a reason why the Stewarts have made scholarships for arts students their giving priority. In addition, when Carole retired as dean of the College of Arts Jan. 1, the college created a graduate scholarship in her name.

"Because there is less money from all sources for arts students," Carole says, "we have both been more concerned in recent years with increasing scholarships — and opportunities — for these students."

The couple also gives to the University in another important way. This September, they will take 19 students to London as part of Guelph's London semester, something they also did in 1999 and 1975.

Guided and supervised by the couple, the students will take courses in drama, art history, music and other subjects. The Stewarts will teach one course, but will also spend many months prior to the semester organizing its academic component, selecting the students, finding them accommodation and so on.

"It does take quite a bit of time," Carole says, "but it's a wonderful experience for the students, and we enjoy it, too."

Reflecting on their time at U of G — Don joined in 1965 and Carole in 1966, after each graduating from the University of London in England — both say they feel fortunate to have had a hand in helping to build the College of Arts, the Department of Philosophy and the University itself.

"We arrived at the University at the beginning of our careers and watched it develop to this stage, where it is surely one of the best universities in Canada," says Carole. "It's quite something to have been part of that process during the lifetime of our careers."

BY SUZANNE SOTO



Retired associate librarian Ellen Pearson. PHOTO BY SUZANNE SOTO

tions — and its reputation — grow.

"I started out in the documentation centre in the basement and moved all the way to the third floor," she jokes. "I worked in circulation and information, social sciences for a short time and then special information services — which is computer-based reference services and which was my area of expertise — and finally in library administration and personnel."

Pearson says the U of G Library was one of the first university libraries anywhere to use computer-based systems to catalogue and control inventory, to make government publi-

Campus Community Campaign Results

Total raised: \$443,024, as of April 3. This includes gifts from senior administration, chairs and directors, faculty, staff and retirees.

Average gift: \$1,380.

New donors: Of the faculty, staff and retirees making gifts to the campaign this semester, 36.4 per cent are new donors to U of G.

There's still time: Get your pledge in by midnight April

16 and qualify for the campus community campaign closing draw.

And don't forget: Every gift to the campaign is recognized with a campaign coffee mug.

Come join us: An ice cream party to celebrate the campus community campaign will be held April 16 from noon to 2 p.m. at four locations: Branion and Creelman plazas, OVC green and the atrium at 95 Stone Rd.

A FASCINATION WITH JOHN GALT

*"The more I read about him, the more I recognize how complex he was
and the more I appreciate the sophistication and depth of his writing"*

BY GIL STELTER

YOU WILL SEE AND HEAR John Galt's name a lot this month as the city of Guelph celebrates the 175th anniversary of his founding the city in 1827. I have been fascinated by this man and his creativity for more than 20 years, mostly because of his innovative approach to town planning and building.

The general story seems straightforward enough. Galt was a Scottish novelist who represented a British investment company, the Canada Company, and founded Guelph as part of a larger colonization venture involving more than two million acres of land in Upper Canada (Ontario). He was fired by the company less than two years after Guelph's birth, partly because he spent too much company money on Guelph's development.

We can appreciate the legitimate nostalgia and celebration surrounding the city's founder. Beyond that, however, why should we take Galt seriously? Wasn't he a second-rate novelist and a failed businessman? His fiction has been largely forgotten, even by the Scots, although he's being rediscovered as Scottish nationalism grows. Canadian historians usually relegate him to a minor position in the history of settlement, if he's mentioned at all.

I remember a call from a CBC reporter in 1984, when the Learned Societies were meeting at U of G and I was on the program of the Canadian Historical Association with a paper on Galt. The reporter's interest was sparked by my title, "Who Is John Galt?", which inadvertently repeated the opening line of an Ayn Rand novel. When the reporter discovered who I was actually talking about, she quickly brought the interview to an end in some embarrassment. My John Galt obviously wouldn't interest the Canadian public as much as Ayn Rand's.

I suspect that's partly because most people still don't know who John Galt was. I've worked on him sporadically and have published several articles about him. On several occasions, I've even dressed up like him to re-enact Guelph's founding. But the more I read about him, the more I recognize how complex he was and the more I appreciate the sophistication and depth of his writing. By any standards, he was a prolific author. He published more than 40 books, mostly fiction (some of it anonymous hackwork just to make ends meet), several biographies, two autobiographies, several volumes of short stories and plays, and regular journalism on the arts and political and economic affairs. He also produced a voluminous correspondence related to both fiction and business. (One of the best collections in the world of his publications and letters is part of the Scottish Collection in the U of G Library.)

Not surprisingly, Galt is difficult to categorize and define. This applies to his personality, to his fiction and especially to the problematic connections between his writing and his business activities. As a result, scholarly interpretations of him seem to portray wildly different people. In fact, as anyone dipping into the literature about him will soon discover, there are two John Galts. He himself provided the basis for this dichotomy with two autobiographies, one on his various business schemes, especially his colonization effort in Canada, and the other a summary of his writing career.

Scholars have tended to follow this dualism and most have focused on his fiction. The most influential biographer in this regard has been the New Zealander Ian Gordon. Like most Galt scholars, Gordon ranks the realistic novels set in the west of Scotland as his best, including *The Annals of the Parish* (1821), *The Provost* (1822) and *The Entail* (1822).

My own favourite among these early works is *The Provost*, set in a fictionalized version of Galt's birthplace, the west coast port of Irvine. It purports to be a memoir of a merchant who served on the borough's council for more than 30 years and in the council's highest capacity as provost for three separate terms. Galt combined an ironic sense of realism with gentle comedy as Provost Pawkie shrewdly manipulated the council-



lors and the public (Galt was an admirer of Machiavelli), and wrote that "it was a better thing, in this world, to have power and influence than to show the possession of either." And Pawkie ridiculed other politicians for their awkward handling of their own interests, which "was not often very cleverly done, and the cloven-foot of self-interest was now and then to be seen aneath the robe of public principle."

Unfortunately, such insights into the nature of leadership were usually not effectively translated into Galt's personal practice. As one contemporary put it: "There was in Galt a mixture of intense shrewdness in the observation of others and solemn compositeness of personal pretensions."

*"Galt is difficult to categorize and define.
This applies to his personality, to his fiction
and especially to the problematic
connections between his writing
and his business activities."*

Although Galt lived in Canada for only about three years, he set a considerable amount of his fiction in North America. This included the very popular *Lawrie Todd* (1830), an account based on an American land development scheme in New York state, and *Bogle Corbet* (1831), a lightly disguised version of his efforts in Guelph. Some of the best articles on Galt's fiction set in Canada have been done by University professor emerita Elizabeth Waterston, who sees him as a precursor of L.M. Montgomery, Stephen Leacock and even Alice Munro.

Most of Galt's literary reputation depends on the so-called realistic novels already mentioned. Yet much of his writing had a darker mystical side that is usually ignored or dismissed by critics, who considered books like *The Omen* (1826) as failures. This standard interpretation has been called into question by critic Martin Bowman, who argues that gothic romanticism, including astrology and the supernatural, was as essential to Galt's approach as the realistic.

Far less attention has been paid to Galt's business activities, even though he always claimed they were more significant than his literary endeavours. His literary autobiography concludes with: "But when my numerous books are forgotten, I shall yet be remembered. . . . I contrived the Canada Company, which will hereafter be spoken of among the eras of a nation destined for greatness."

The only book-length study of this side of Galt was published by Canadian H.B. Timothy in 1977. Timothy managed to find a good deal of new information about various facets of Galt's life and career, but the sections of his study about the places Galt founded are less than satisfactory.

The point is, there is no biography of Galt, or at least none that gives full coverage to both sides of his personality and activities. Scholars seem to have fallen into the practice of the proverbial blind men who, when examining an elephant, each seized on a different feature and proclaimed it the true characteristic. The problem is that anyone attempting a well-rounded treatment of Galt would have to master the worlds of 19th-century British literature and business, the Byzantine world of London's imperial government and its colonial subsidiaries, and the 19th-century settlement processes in the United States and Canada. I am not about to take on this task. My concerns are both more general and more parochial and involve the way Galt relates to my interest in how towns are founded and to my current work on theories of the city. In these areas, his realistic and romantic fiction, as well as his more practical writing and activities, provide a remarkable

degree of insight.

Galt's writings do not really furnish us with a kind of practical manual on how to found a town. An author of one of his obituaries provides the context: "... he was more distinguished for the vigour of his conceptions than for the practicability of his plans." But his grand schemes could result in something beyond the ordinary. His conception of the way the settlement process could work went against the conventional assumptions of the day. A new town would precede general settlement and shape the character of the agricultural community. Several years after founding Guelph, and later Goderich, he reflected on the policy he had followed: "... the first step in colonization is to plant a village. . . . Indeed, the plan is so obviously judicious that two opinions cannot be entertained on the subject; for we see it is from towns in all countries that cultivation proceeds."

A strong hint of his romanticism surfaced in his founding of Guelph on St. George's Day, April 23, 1827, when he ceremoniously cut down a giant maple tree: "I was well aware of the boding effect of a little solemnity on the minds of most men . . . at eras which betokened destiny, like the launching of a vessel, or the birth of an enterprise, of which a horoscope might be cast. The founding of a town was certainly one of these."

Galt's imagination also extended to the plan of the town itself, for it represented a significant departure from the usual grid that typified most towns in early Canada. Galt and his surveyors worked out a baroque design with streets radiating from a focal point, the stump of the symbolic maple tree. The plan provided a superb setting for later community development, with terminating vistas and focal points, features that many Canadian cities tried to introduce during the City Beautiful Movement almost a century later.

My continuing fascination with Galt probably stems from the fact that he was more than a town planner, more than a writer of fiction. His books are still enjoyable reading, and several are still in print. As we learn to understand him better in the future, we might appreciate more fully the rich legacy he has left us.

Prof. Gil Stelter is University professor emeritus in the Department of History.

Digging the Past

Classics professor is part of archeological team looking at the fringe of the Roman world and beyond

DEEP in the southern desert of Jordan lie the sand-entombed remains of Humayma, one of the farthest-flung outposts of the Roman Empire during the rule of emperor Trajan 2,000 years ago.

The archeological site is where Prof. Andrew Sherwood, School of Languages and Literatures, plans to spend four weeks this summer surrounded by a landscape of sand, rocky plateaus and scrubby brush once roamed by Lawrence of Arabia.

Sherwood, a classical archeologist, will help oversee the planning and administration of a new excavation at the site, set to begin in the summer of 2003.

"We're going to be looking at the fringe of the Roman world and what was beyond the Roman world," he says. "Traditionally, classical archeological research tends to look at centres like Athens and Rome—the big cities, the urban cities. We want to know what was happening on the border of the empire."

Sherwood will be working with excavation director John Oleson, a professor at the University of Victoria. They will be joined by a professor and graduate student from the University of Buffalo and a PhD student from the University of British Columbia.

Fifteen years ago, little was known about Humayma. Sherwood recalls that "all you could see were mounds of earth" when he first started working there as a Princeton graduate student, under the direction of Oleson.

The site, which dates from about 100 BC, was originally a gathering place for the nomadic Nabataean people, ancestors to the Bedouins. The Romans established an outpost there early in the second century AD.

Rome considered the site, located halfway between Petra and the port

town of Aqaba, strategically important. It was on a road built by Trajan from Aqaba north through Amman, which helped stabilize the frontier of the empire and facilitated trade between the Far East and the Mediterranean coast.

Previous digs tried to determine how the Nabataeans and the Romans could have survived there, says Sherwood. "The area gets next to nothing in terms of rainfall on a yearly basis, yet there was a small town and a Roman fort."

The archeologists found graded catchment fields and low-level dams that directed the region's sparse rainfall into many cisterns. The Romans also built a low-level aqueduct to bring water from springs about 20 kilometres away.

Other findings included concentrated bits and pieces of military equipment and other items consistent with a military camp, as well as signs of a thriving settlement for camp followers. There was a bath building, despite the lack of water, reinforcing the importance of baths to the Roman way of life.

"As we began excavating, we found the site was more complicated than we thought," says Sherwood. "In this area, that was something special," he says. "When you stumble across something like that, it's really quite amazing."

Because of the complexity of the site, the next step will be to take a larger view of the settlement to further chronicle its evolution. This summer, University of Buffalo geophysicist Greg Baker plans to conduct several geophysical surveys



Prof. Andrew Sherwood stands atop a 2,000-year-old Nabataean cistern during an excavation in Jordan in 1988.

(magnetometer and resistivity) of the site, providing the equivalent of X-rays of the structures beneath the ground. That will enable the researchers to plan out their excavation strategy for the next few years.

Further exploration of residential areas is planned, as is excavation of stables, says Sherwood. "We know Roman cavalry were stationed there. We'd like to prove the Romans were using camels because horses don't do as well in the desert."

The team may also decide to excavate a kitchen to collect more information about dietary habits. Already a wide variety of food remains have turned up, including fish

and mussels that would have been transported from Aqaba, about 75 kilometres away by the route used in antiquity.

Despite the thrill that comes from piecing together the past, Sherwood cautions that archeological digs share little in common with the Indiana Jones-type image that Hollywood delivers.

"Everyone has a romantic idea of what it's like to excavate," he says. "It's not all the glamorous things people think of. The closest thing to it is working in the garden for a summer, but it is exciting when you find something. You can be in a trench for two weeks and all you're doing is

moving dirt two inches at a time, when all of a sudden you find something—something no one has seen for 2,000 years."

Sherwood says his best artifact discovery occurred on his first dig in northern Israel, when he found a horse skull. "It wasn't supposed to be there, so it was a really important find." He cleaned it up using dental picks and paintbrushes, then handed it over to be photographed. Then disaster occurred.

"After the skull was documented, the photographer tripped, and it was crushed into thousands of pieces."

Sherwood came to Guelph from McGill University last August. He teaches Latin and Greek history and literature and Greek and Roman art and architecture.

U of G students will have an opportunity to participate when the Humayma dig gets fully under way in 2003. "Not a single volunteer has ever disliked the work," says Sherwood. "People come back year after year. They enjoy the combination of work and the social aspects. Students, lawyers, doctors, priests, housewives and businesspeople come to help us."

He says being at Guelph holds unique advantages for his work because of the University's combination of agricultural and veterinary expertise.

"Archeologists work with the remains of animals and agriculture, and today the scientific analysis of materials requires an interdisciplinary approach. It's important to have people you can bring samples to, and I hope to be able to establish better contacts with OAC and OVC for data analysis. I find that people from other disciplines are often interested in a chance to be associated with the world of archeology."

BY STACEY CURRY GUNN

Guelph Chosen for Ecosystem Research Project

LANDLOCKED U of G will become the only university in Ontario to receive direct funding for faculty under a special ecosystem program run by the Great Lakes Fishery Commission (GLFC).

Under its Partnership for Ecosystem Research and Management (PERM), part of the commission's overall research program for fisheries management and sea lamprey control in the Great Lakes, the GLFC will provide about \$225,000 a year to Guelph. The money will cover salaries and support costs for two tenure-track positions, one to be filled by a current research associate in the Department of Zoology and the other by a fish physiologist from McMaster University. The funding also links Guelph with Michigan State University, where two similar positions have been paid for under PERM for six years.

"We are the one place on the Canadian side that's seen to be linked directly with the commission," says Prof. David Noakes, Zoology. "It clearly enhances our reputation in fish biology and fisheries research."

The Guelph funding is a relatively small part of the commission's roughly \$2-million annual research budget. But PERM is an im-

portant tool for the commission in carrying out its role in fisheries management and in controlling sea lampreys in the Great Lakes, says Marc Gaden, GLFC communications officer in Ann Arbor, Mich. The PERM positions allow the commission to strengthen its ties to academia, tap into additional research funding and complete necessary scientific studies, he says.

"We have high hopes for these positions because the research that these faculty and their students will deliver is vital not only to our program, but also to the overall health of the Great Lakes fishery," says Gaden, adding that sport fishing in the Great Lakes is a multi-billion-dollar industry.

"Without the PERM scientists, we would have to do a lot of the research co-ordination ourselves," he says.

Although faculty at Guelph and other Ontario universities have long received research funding from the GLFC, these are the only two permanent positions in the province being supported by PERM. Both new faculty members will still be eligible to compete for further research grants from the commission.

"A couple of years ago, the commission re-

alized it would get more for its research investment if it supported people at universities rather than on an ad hoc basis," says Noakes. Adds Gaden: "Our partnership with Guelph allows us to tap into the resources and expertise of a world-class institution to further our research program. The commission wants to devote more attention to behavioural ecology and stream ecology. This partnership will be a significant boost in our understanding of the resource."

Pointing out that both Canada and the United States have vested interests in preserving the Great Lakes fishery, Gaden adds: "We like the fact that we now have an arrangement in both countries."

The two new researchers will belong to the Department of Zoology, working initially in the Axelrod Institute of Ichthyology. Prof. Rob McLaughlin has worked with Noakes in various capacities since 1996 on sea lamprey control using barrier dams in streams feeding into the Great Lakes. Those projects, also funded by the GLFC, have involved researchers at Michigan State and Wisconsin universities, the Department of Fisheries and Oceans (DFO) and the Ontario Ministry of Natural Resources.

Also joining Guelph is Gordon MacDonald, who has studied fish physiology at McMaster University and has collaborated with U of G faculty.

Graduate students working on fisheries-related topics will benefit from fellowship and infrastructure funds resulting from a recent three-year \$150,000 grant from the DFO. (Guelph has also received about \$4 million from the Canada Foundation for Innovation for research laboratories and offices in the Institute of Ichthyology, the Hagen Aqualab and the Alma Research Station.)

Introduced accidentally to the upper Great Lakes during the 1920s, sea lamprey wreaked havoc on local fisheries before the GLFC was established in 1955 under an agreement between Canada and the United States. Through control measures and research, the commission has reduced the lamprey population by about 90 per cent over 1950s levels.

Pointing to recent outbreaks in lakes Huron and Michigan, Gaden says it's important to remain vigilant. "Few people believe eradication is possible. Until you get that last mating pair, you've got lampreys here."

BY ANDREW VOWLES

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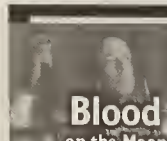
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LETTERS

WHAT IS CREATIVE? WHAT IS THEORY? WHAT IS TRUE?

The response of Profs. Art Hill and Bonnie Mallard (@Guelph, Feb. 14) to previous comments on the theory of evolution raised in our minds three critical questions: 1) what is creative? 2) what is theory? and 3) what is true? As they noted in their letter, this forum will permit only the briefest response to these three questions about which many philosophers have puzzled.

What is creative? Profs. Hill and Mallard argued that natural selection is a conservative process rather than a creative one because they imagine it operating on variation given by other creative processes. Although we take their point, we disagree that natural selection is itself not creative because this depends on one's definition of creative. Among its several meanings, creative can mean "to give rise to" and "to be the cause or occasion of." By its action, natural selection changes the gene pool and the proportions of genotypes in populations. This creates a new substrate on which natural selection can "work" to produce another new substrate and so on. In this sense, natural selection is creative.

What is theory? Profs. Hill and Mallard conclude that evolution "ought to be taught as a theory, clearly outlining its scientific and philosophical weaknesses as well as strengths." For science, we might ask: What isn't theory? There is atomic theory, optics theory, relativity theory, quantum theory, cell theory, genetic theory and so on. To this abbreviated list of scientific theories, we add evolution theory.

Theories are the most important structures in the scientific world view; the very hallmark of science is the powerful theory. Evolutionary biologists at Guelph teach evolution theory in the context of scientific theories. And we would hold our colleagues in other disciplines of science to teach their science from the same theoretical perspective.

What is true? Finally, in relating two seemingly damning incidents, Profs. Hill and Mallard leave the impression that evolutionary biologists don't know what is "true" and "false" about the theory. It may have been that these groups of evolutionary biologists were cautious about how "true" might be interpreted. Scientific facts cannot be demonstrated to be absolutely "true," if you will, but only conditionally "true" until disproved.

Given this definition of "truth," which applies to all theories in science, there are clearly many aspects of evolution theory that are "true." Natural selection and descent with modification are two important "truths" that come to mind.

Evolutionist Theodosius Dobzhansky said many years ago: "Nothing in biology makes sense except in the light of evolution." We wouldn't unqualifiedly support that claim, but the theory of evolution is without doubt a central theory in biological science today. And it's the best scientific theory we've got to explain the diversity of life on this planet.

Profs. Denis Lynn and Ron Brooks
Department of Zoology

NETWORK'S MISSION CHALLENGED

It is depressing to see the University playing the shell again for corporate industrial agriculture and, specifically, operating as a privately funded institutional propagandist for genetically modified organisms.

Let members of the University community don't know it, that is what the Orwellianly named "Food Safety Network" and its director, Prof. Doug Powell, are structured to do (@Guelph, March 27). Their funding of

\$890,000 comes from the Donner Foundation, a wealthy business foundation linked with the Fraser Institute, and from a former meat-packing CEO.

The reason you know it's not food safety they're really interested in begins with the fact that virtually none of the suspect GMOs have yet been tested for potentially disastrous ecological effects by dispersion, genetic dominance and contamination of organic food crops and other species, or for their allergen effects expressed by their genetic milieus — in short, for their actual health effects on life systems. Yet Powell, an assistant professor appointee in successive departments, has for years publicly attacked questioners and aggressively promoted GMO products in spite of their systemic dangers, which have not been adequately tested.

This is called "rigorous scientific inquiry" and "shaping and evaluating public policy on the critical issue of food safety."

There is a fundamental confusion about scientific credentials that this special-interest misrepresentation of "food safety" depends on. Industrial food proponents like Powell are not remotely educated in system-deciding normative concepts like *health*, but declare expertise in "food safety," which can come to mean what their funders want it to mean, especially when there is a lot of public relations money behind it rather than the required research.

In the meantime, even the federal Canadian Institute for Food Inspection and Regulation housed on the U of G campus is compromised by an increasing encroachment of overt PR activities on its regulatory research mandate. Its promotional initiatives are so mixed with its research function that it has been publicly criticized by the Royal Society's Panel on the Future of Food Technology for this failure to distinguish its research functions from public relations campaigns.

I am sorry to say that I am ashamed of my university for this latest institutionalization of a special-interest lobby as a University body, and for its failure to ensure balanced dissemination of information and relevant administrative commitment to the University's knowledge mission.

Prof. John McMurtry FRSC
Department of Philosophy

IT WAS A VERY SPECIAL OCCASION

I want to thank everyone concerned for a wonderful (early!) retirement party to mark the end of my career at the University of Guelph. It was a very special occasion for me, and I was touched to see so many of my friends and colleagues there. Lots of fun was had by all, and some of you got to see a side of me that you didn't know existed.

Thanks also to everyone who contributed to my gifts. I love the mahogany U of G Napoleon mantel clock — it has pride of place at home. I was also delighted to receive the cheque earmarked for the "Tricia Travel Fund." It will be put to good use when I go to England in May.

I will miss working at the University, but even more than that, I will miss all of you. I intend to be on campus from time to time, so I hope to see some of you then. If not, we're in the book!

Tricia Halley

@Guelph welcomes letters to the editor. They should be limited to 500 words, signed by the author and submitted electronically. Send letters to Barbara Chance at b.chance@exec.uoguelph.ca.

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Rock Climbing Hurting Cliff Ecosystems, Study Finds

Some ancient forest areas have become sacrificial lambs, says botanist

GRAUATE STUDENT Michele McMillan had to dangle from a rope for hours at a time — sometimes as high as 30 metres from the ground — to collect samples for her study on the effects of rock climbing on cliff ecosystems. She was scared at times, but says it was worth it.

Her groundbreaking research — conducted with Prof. Doug Larson of the Department of Botany — appears in the latest edition of *Conservation Biology*. It reveals that recreational rock climbing definitely harms cliff ecosystems. The study is the first to isolate rock climbing from other environmental factors and examine the sport's effect on all types of vegetation, including trees, bryophytes (rootless plants such as mosses) and lichens.

"We looked at the impact on the plant community as a whole — we didn't just isolate one species," McMillan says. Adds Larson: "No other study has ever looked at the effect on all different kinds of plants at the same time. It was very comprehensive. The cliffs suffer in many ways all at once."

The results show that rock climbing "is having a negative effect on everything," says McMillan. "It's not just the trees, it's the entire community of organisms. Not only is the 'sport' decreasing the abundance of plants, but it's also reducing the number of species present."

McMillan and Larson, both members of U of G's Cliff Ecology Research Group, studied the ecological effects of rock climbing on the cliffs of the Niagara Escarpment in the Halton Region Conservation Authority.

"I would take the hiking trails to the tops of the cliffs, then scale down the cliffs and hang from a rope to collect samples," says McMillan. "I always had bruises on my legs from the harness."

The escarpment they studied is home to various habitats, including forests of ancient, slow-growing trees — some of them more than



Graduate student Michele McMillan scaled down rocks and hung from ropes to collect samples of plants along the Niagara Escarpment.

PHOTO BY XOCITL BENJAMIN

1,000 years old.

"Many of these are areas that have gone untouched for centuries, but the growing popularity of rock climbing over the past 20 years has changed all that," says Larson.

The sport has "exploded" in recent years, he adds. "Thousands of people within Metro Toronto rock climb. When some people think of rock climbing, they're thinking it's part of nature, but in fact what we have shown is that they are destroying the very thing they're climbing to see."

The researchers compared vegetation on three parts of the cliffs — the plateau, cliff face (middle) and base — and looked at both climbed and unclimbed cliffs. They found that cliffs used by rock climbers had only 46 per cent as many vascular plant species as unclimbed cliffs had. The diversity of bryophytes and lichens was 60 to 70 per cent less than the diversity in undisturbed areas. Rock climbing also decreased the

cover of vegetation on cliffs by about 40 per cent.

In addition, the proportion of non-native species is three times higher in areas that are subjected to rock climbing — 81 per cent compared with 27 per cent. "Rock climbing reduces plant density, so the weedy species can take over after the delicate natives are excluded," McMillan says.

Adds Larson: "The invading species come in from anywhere they can: on the wind, dogs, other wildlife. But people are a major entry point as well, carrying in other species on their shoes and clothing."

Although the study was limited to a section of the Niagara Escarpment, McMillan says it's applicable to other regions in North America as well. "The communities that grow on these cliffs are pretty similar."

To help reduce future environmental damage, the researchers suggest banning new climbing routes in protected areas. "We're not against rock climbing," Larson says. "We're simply saying that it's better to keep climbing restricted to areas."

Once an area has been damaged, it takes a vast amount of time and effort to repair it, he says.

"It's too late for many of these popular areas such as Rattlesnake Point. Unfortunately, these ancient forest areas have become sacrificial lambs. But it's better to keep climbing in areas that have already been damaged than to take a pristine area and develop it. I can't imagine that 100 years from now people will be saying: 'I'm glad we destroyed some of those precious areas so that we could rock climb.'"

BY LORI BONA HUNT

Awards Presented

Continued from page 1



Fine art student Rebecca Wood, left, and Department of Athletics staff member Pat Richards are this year's recipients of the R.P. Gilmor Student Life Award.

PHOTO BY BARBARA CHANCE

recognizes an undergraduate or graduate student who has consistently demonstrated through volunteer efforts a sense of personal responsibility and commitment toward community.

The Student Leadership Rookie Award, presented to a student who, during her or his first year of active involvement in campus life, has made invaluable contributions to a club or organization at the University, went to first-year student Annie Benko.

The awards banquet also marked the presentation of the R.P. Gilmor Student Life Award, which recognizes individuals or groups who have contributed to the betterment of student life at U of G. It is named for Paul Gilmor, provost and director of student services from 1967 to 1987.

This year's recipients are Pat Richards, lifestyle and fitness coordinator in the Department of Ath-

letics, and graduating fine art student Rebecca Wood.

The lifestyle and fitness team headed by Richards, who joined U of G in 1985, provides a range of employment opportunities for students and offers a unique opportunity for students, staff and faculty to interact. Wood is president of the Fine Art Network, won first prize in the school's 2002 Juried Art Exhibition and was development officer for the recent Montreal conference on "Globalization and Post-Colonialism II: Intimate and Interactive."

Brenda Whiteside, associate vice-president (student affairs), lauds the accomplishments of all the 2002 award recipients.

"This annual recognition event is always special for me because it's a time when we realize more than ever the kind of quality students we have at U of G and the outstanding contributions they make to this university," she says.

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Thornbrough Donates Records to Archives

Gift will offer new perspectives on management of Massey-Ferguson

ALBERT THORNBROUGH, former president of Massey-Ferguson Limited, recently donated many records related to his tenure as chief executive officer to the U of G Library.

His papers as president add substantially to a comprehensive collection of Massey-Harris-Ferguson records that came to the University in the Rural Heritage Collection two years ago, says Lorne Bruce,

head of archival and special collections.

Thornbrough's connection with U of G began in 1964 when the Kansas-born native became an inaugural member of the University's Board of Governors. For a number of years, he served as the board's vice-chair. He also co-chaired the University's development fund in the early 1970s and served as chair of the finance committee.

In June 1973, the University formally recognized his contributions with the dedication of the new engineering building in his name.

Bruce notes that Massey-Harris-Ferguson was an important Canadian farm equipment manufacturer in the 1950s, but after Thornbrough's appointment as president in December 1956, the company rapidly expanded its world market share. He was named CEO in 1965 and became deputy chair of the Massey-Ferguson board in 1978. He retired in April 1979 and now lives in Florida.

"Thornbrough's gift to the University consists of records that mark

a tumultuous period of expansion in Massey-Ferguson's history," says Bruce. "Under his leadership, the company grew substantially in size and offered equipment models for all the different markets, eventually becoming the largest tractor company in the world. The reports, correspondence, planning materials, memorandums and diaries in his donation clearly outline the patterns that he worked to have the company develop along in Canada and other countries."

Library staff are currently preparing an inventory of holdings to provide access to researchers and students.

This latest addition from Thornbrough enriches the library's existing holdings for Massey-Harris-Ferguson, says Bruce.

"It adds a personal touch to corporate materials that will offer researchers new perspectives on the business history of agricultural equipment and management of Massey-Ferguson for many years."

For more information, contact Bruce at Ext. 2089.

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Chairs Appointed

Continued from page 1

experiences and the pay they receive for work affect their sense of pay entitlement. He hopes to gain a better understanding of the impact of pay inequity and gender differences in issues of pay entitlement.

Husband will examine the underpinnings of plant biological diversity through research into sexual reproduction and the resulting patterns of gene exchange. His research will centre on plant mating patterns within and among populations, as well as among species, and will provide insights into the function and evolution of all plant populations. This will enable more informed strategies for managing sexual reproduction and its ecological and genetic consequences for agriculture, forestry and conservation.

"The current status of biological diversity in Canada and globally has become a major focus for biologists, public policy-makers and society at large. It is integral to our quality of life because it is the primary ingredient of the evolutionary process that governs whether an organism will adapt to a changing environment."

Husband will be working with re-

searchers in the departments of Botany, Zoology, Environmental Biology and Plant Agriculture. He received an Ontario Premier's Research Excellence Award in 2000, serves as associate editor of the *Canadian Journal of Botany* and is the author of more than 40 scientific articles, many published in top international journals.

The Canada Research Chairs program was established in 2000 as a way of enabling Canadian universities to become world-class centres of research excellence by providing them with funds to attract and retain excellent faculty.

Federal funding from the program is enhanced through contributions in support of research infrastructure from the Canada Foundation for Innovation (CFI) and the Ontario Innovation Trust through its Ontario Distinguished Researcher Award.

Each agency provided an additional \$51,570 to Desmarais and \$73,476 to Husband to help cover equipment and operating costs.

BY LORI BONA HUNT

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Four SUV 15-inch silver wheel rims, six lugs; six-string G Takamine acoustic guitar, with or without hard shell case, Gary, Ext. 2835 or gscapine@fin.uoguelph.ca.

Girl's green 20-inch CCM Bobcat bicycle, five-speed; boy's 16-inch Supercycle Twister, yellow/blue; Nike soccer shoes, size one, Ext. 6116 or 822-1438.

Firewood, Pete, 821-9106.

Full-size Casio keyboard with stand, two glass winemaking containers, 821-8592 after 5:30 p.m.

Three-bedroom house in south end, possible fourth bedroom, three baths, skylights, unfinished walkout basement to mature garden with pond, move-in condition, 822-2248 or visit the Web site www.kw.lgs.net/~grchapman/.

Three-bedroom condo/townhouse, 2,000 square feet, 2½ baths, two fireplaces, central air and vac, gas, parking for three cars, backs on to greenbelt and river, minutes to downtown and campus, 824-0067.

Car stereo, AM/FM auto-reverse cassette, includes four Jensen speakers, used only one year, 823-2737.

WANTED

Energetic young professional looking to join a dragonboat team, 820-7534 or tariq@ca.inter.net.

Reliable evening caregiver for 10-year-old boy, April 25 to May 10, weeknights from 5 p.m. to 1 a.m. in my home, Monticello Crescent, 763-9364.

One- or two-bedroom furnished or unfurnished apartment within 30-minute walk of campus for mature male professor, non-smoker, no pets, parking required, 835-3975.

Pet sitter for two dogs and one cat for July, preferably in our home, free lodging in return, Lucy, Ext. 2390 or lreid@uoguelph.ca.

Two-bedroom apartment for visiting professor and family, July 1 to March 30, 2003, within 30-minute walk of campus, Margaret, Ext. 2280 or mmtimms@uoguelph.ca.

Bachelor apartment in quiet neighbourhood close to campus and downtown for summer, reasonable rent, parking, laundry, non-smoker, no pets, 837-0022 or sunflowerjs@hotmail.com.

Ride needed to Guelph-Humber on a daily basis in fall 2002, will share gas, Gisele, Ext. 6935.

FOR RENT

Three-bedroom house available from Nov. 30 to Jan. 3, 2003, rent negotiable, Cynthia, 767-0122 evenings or ccheesem@uoguelph.ca.

One bedroom in three-bedroom house in south end, separate bath, shared kitchen and laundry, parking, available May 1, \$350 a month inclusive, Paye, 821-6569.

One-bedroom apartment in south end, private entrance, parking, suit single non-smoking professional, available June 1, \$700 a month inclusive, Scott or Heather, 826-0787.

Two-bedroom apartment, Hanlon/Stone Road area, laundry in unit, gas fireplace, exercise rooms in building, available May 3, \$1,000 a month plus utilities, Ext. 6441, 837-8719 or KRJ@physics.uoguelph.ca.

Five-bedroom house, 10-minute walk to campus, appliances, close to bus stop and shopping, one-year lease, damage deposit required, available May 1, leave message at 827-9221.

Four-bedroom house to share on Conroy Crescent, females preferred, parking, laundry, 25-minute walk to campus, \$275 a month inclusive, Sarah, Ext. 76496 or 284-4395.

Bachelor apartment in south end, \$375 a month inclusive, Rose or Brad, 824-0245.

Accommodation in townhouse condo, two bedrooms on upper level and one-bedroom basement apartment, female non-smokers preferred, \$495 a month inclusive for apartment, \$440 a month inclusive for the two rooms, Laura, 826-9794.

Two-bedroom cottage north of Sauble Beach, dishwasher, campfire pit, deck, propane barbecue, TV/VCR,

suitable for four, non-smokers, no pets, pictures available, \$500 a week, leave message at 763-1236 or barwell@ovc.uoguelph.ca.

Furnished one-bedroom condo for professional, underground parking, non-smoker, no pets, available June 1, \$900 a month, 763-6954.

Two-bedroom basement apartment in south end, separate entrance, yard, close to campus, parking, non-smokers, available May 1, \$900 a month inclusive, 837-9416.

Furnished three-bedroom home in south end, central air, water softener, available July 1, references required, no pets, \$1,500 a month plus utilities, 821-3707.

Three-bedroom townhouse to sublet, three baths, close to campus, available immediately until Dec. 31, \$1,189 a month inclusive, Ext. 3176 mornings or 821-3092.

Furnished two-bedroom condo in historical building, two baths, ensuite laundry, parking, available May 1, \$1,500 a month, Carol, 823-1857 or 731-1857.

Two-bedroom cottage on Georgian Bay Island, great swimming, canoeing, overlooking Killbear Provincial Park, Ken, 822-7205.

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Hot tub cleaning, Doug, 766-4723 or dbutch01@uoguelph.ca.

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E V E N T S

ARBORETUM

Theatre in the Trees presents the comedy *Funny Valentine* by Dennis Andersen Saturdays until April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks conclude April 14 with "Take a Gander." It leaves from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Naturalist Chris Earley leads a workshop on less common warblers May 2 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment deadline is April 18.

A workshop titled "Willow Wattle Weave II" is slated for May 6 from 9 a.m. to 4 p.m. Cost is \$80. Registration and payment are due April 22.

Instructor/writer Mary Ann Moore hosts a three-week workshop on journaling in the garden May 7, 14 and 21 from 10 a.m. to noon. Cost is \$45. Registration and payment deadline is April 23.

LECTURE

The College of Arts presents University professor emeritus Gil Stelter, History, discussing "John Galt and Guelph: A Writer's Imagination and the Creation of the Community" April 12 at 7 p.m. in MacKinnon 114.

NOTICES

A PhD student working with Prof. Serge Desmarais, Psychology, is looking for participants for a study on growing up in a family with alcoholism. Participants must be aged 19 to 60, not currently abusing alcohol and with at least one sibling. Participants will be eligible for a random draw for a prize valued at \$250. To participate, call Ext. 8626.

The latest information on the University Partnerships in Co-operation and Development (UPCD) Tier 1 and Tier 2 programs is available on the Association of Universities and

Colleges of Canada (AUCC) Web site at www.aucc.ca. AUCC is running a workshop on UPCD May 2 and 3 at McMaster University. Registration forms are available from Jan Walker in the Centre for International Programs.

Status of Women Canada is calling for nominations for the 23rd annual Governor General's Awards in Commemoration of the Persons Case, the five Alberta women whose determination led to a landmark victory in the struggle of Canadian women for equality. The awards honour outstanding contributions that have promoted the equality of women in Canada. Nomination deadline is May 19. For more information, visit the Web site www.swc-cfc.gc.ca/persons/personne.html.

ScotiaBank and the Association of Universities and Colleges of Canada presents awards for excellence in three categories: broadening the student experience, maximizing the contribution of research to internationalization, and enhancing internationalization through support for communities. Information is available from the Centre for International Programs or on the Web site www.aucc.ca.

SEMINARS

"Protein Engineering of *Aspergillus awamori* Glucoamylase" is the topic of microbiology graduate student Nooshin Nakhai April 11 in the biochemistry seminar series. On April 18, Masoud Jelokhani of Wilfrid Laurier University explains "Membrane-Interacting Peptides: Synthesis and Biophysical Studies." Talks are at noon in MacNaughton 222.

The Department of Microbiology presents Suzanne Thiem of Michigan State University discussing "The Enigma of hrf-1, a Novel Baculovirus Host-Range Gene" April 11 at 3 p.m. in OVC 1714. The department is also hosting three talks by Geoffrey Gadd of the University of Dundee. He will discuss "Microbial Control of Toxic Metal Pollution" April 23, "Fungi in the Biosphere — Sex, Drugs and Rock and Roll" April 24

and "Microbial Influence on Metal Mobility" April 30. These seminars begin at 11 a.m. in OVC 1715.

The Department of Pathobiology presents Prof. Jonathan LaMarre, Biomedical Sciences, discussing "Regulation of Gene Expression During Hepatocyte Growth" April 12 at 2 p.m. in Pathobiology 2106.

TEACHING SUPPORT

Teaching Support Services' hands-on training in learning technologies wraps up for the semester with "Using Photoshop to Optimize Images for Teaching" April 12 and "Producing Quality Digital Audio for Teaching" April 16. Register online at www.tss.uoguelph.ca.

THESIS DEFENCES

The final examination of PhD candidate Lawrence Goodridge, Food Science, is April 15 at 9:30 a.m. in Food Science 128. The thesis is "A Reporter Bacteriophage — Beta-Galactosidase Assay for Detection of Generic *Escherichia coli* From Beef Carcasses." The adviser is Prof. Mansel Griffiths.

The final examination of Margy de Gruchy, an M.Sc. candidate in the Department of Botany, is April 17 at 1:30 p.m. in Axelrod 265A. The thesis is "The Relationship Between Habitat Characteristics and Alien Plant Abundance on the Bruce Peninsula." The advisers are Profs. Doug Larson and Richard Reader.

The final examination of MA candidate Matthew Milner, History, is April 19 at 2 p.m. in MacKinnon 132. The thesis is "In the Twynkeling of an Eye: Death Rituals and Community in the Books of Common Prayer of Edward VI." The adviser is Prof. Peter Goddard.

The final examination of Deborah Wilson, an MA candidate in the Department of Philosophy, is April 19 at 2 p.m. in MacKinnon 521. The thesis is "How Mind-Like Monads Constitute Genuinely Extended Bodies in Leibniz's Metaphysics."

The adviser is Prof. Peter Loptson.

The final examination of PhD candidate Robert Mawhinney, Chemistry and Biochemistry, is April 22 at 9 a.m. in MacNaughton 222. The thesis is "A Theoretical Study of Compounds Containing Sulphur and Nitrogen and a Statistical Assessment of Errors in Quantum Chemistry Procedures." The adviser is Prof. John Goddard.

The final examination of Derek Johnson, a PhD candidate in the School of Rural Extension Studies, is April 24 at 1 p.m. in OVC 1713. The thesis is "Emptying the Sea of Wealth: Globalization and the Gujarat Fishery." The adviser is Prof. Marta Rohatynskyj.

The final examination of M.Sc. candidate Yi Zhang, Food Science, is April 25 at 10 a.m. in Food Science 241. The thesis is "Starvation-Induced Thermal Tolerance of *Escherichia coli* 0157:H7." The adviser is Prof. Mansel Griffiths.

The final examination of Peter Sullivan, a PhD candidate in the Department of Animal and Poultry Science, is April 29 at 9 a.m. in Animal Science and Nutrition 141. The thesis is "Genetic Evaluation Strategies for Multiple Traits and Countries." The adviser is Prof. Jim Wilton.

WORKSHOPS

Computing and Communications Services' workshops for faculty and staff wrap up this month with "Getting Around Basic Images for the Web" April 12 and 25, "Getting Around PowerPoint 2000" April 16, "Managing Web Sites With Dreamweaver" April 17, "Getting Started as Department Webmaster" April 19 and "Microsoft Access II" April 26 and 30. For more information, visit the Web site www.uoguelph.ca/ccs.

COMMUNITY EVENTS

The Guelph Jazz Festival and Intrepid Ear present improvised music featuring Prof. Ajay Heble, Literatures and Performance Studies

in English, on piano and College of Arts graduate Jesse Stewart on percussion, April 14 at 2 p.m. at the Guelph Youth Music Centre, 75 Cardigan St. A reception will follow. Tickets will be available at the door.

The Royal City Ambassadors, directed by Prof. Ken Fisher, Biomedical Sciences, perform April 12 and 13 at 7:30 p.m. at the River Run Centre. The evening of song and comedy will celebrate 175 years of Guelph history, with proceeds going to the charity Harmonize for Speech. For tickets, call 763-3000.

The Harriston Little Theatre presents *Joseph and the Amazing Technicolour Dreamcoat* for 10 performances from April 12 to 27 at 8 p.m. at the Harriston Town Hall Theatre. For tickets, call 519-338-2778.

The Guelph Chamber Orchestra, conducted by Simon Irving, presents a spring concert April 14 at 3 p.m. at the River Run Centre. The program will feature works by Rossini, Hummel, Bartok, Handel and Haydn. Tickets can be purchased by calling 763-3000. The concert will be repeated April 28 at 3 p.m. at Knox's Galt Presbyterian Church in Cambridge. Tickets will be available at the door.

The Zonta Club of Guelph presents sex expert Sue Johanson discussing "Women's Health — It's All About Healthy Sexuality" April 11 at 7:30 p.m. in War Memorial Hall. Tickets are \$10. All proceeds go to the Guelph General Hospital Foundation.

The next meeting of the Canadian Federation of University Women is April 23 at 7:30 p.m. at the OMAFRA Conference Centre, 1 Stone Rd. Prof. Lynn McDonald, Sociology and Anthropology, will discuss "Florence Nightingale and the Origins of Public Health Care."

Guelph Civic Museum celebrates Founders' Day April 23 from 1 to 7 p.m. Events will include the official opening of the Linamar John Galt History Hall.



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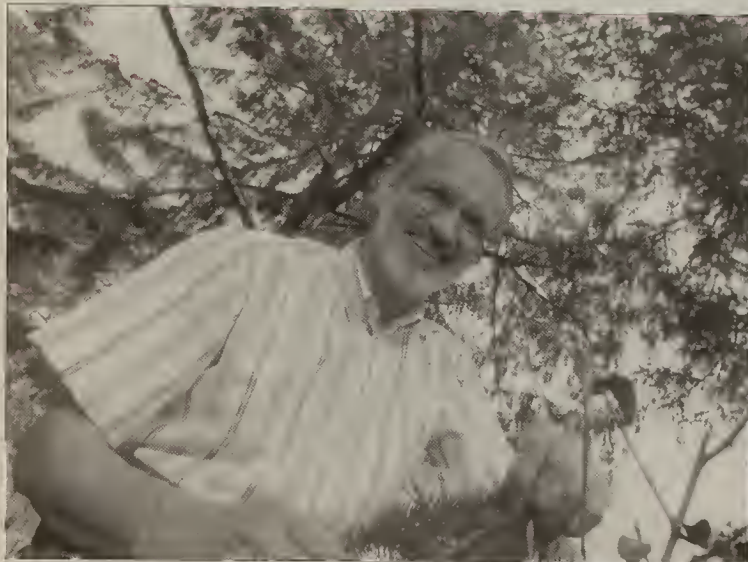




U E L P H

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Microbiology professor Peter Krell is part of a team working to reduce the toll that the spruce budworm takes on Canadian forests.
PHOTO BY MARTIN SCHWALBE

Guelph Researchers Part of Multi-Million-Dollar Projects

Studies to focus on spruce budworm, potatoes and ethics of genomics research

U OF G RESEARCHERS are hoping to use biology to stop a tiny insect that is devastating Canada's forests and forest industry.

They're studying ways to introduce or enhance a virus to limit the damage caused by the spruce budworm — and benefit people and the environment as well.

"If you fly over parts of Canada, you can see gray patches where forests have been destroyed by the spruce budworm," says Prof. Peter Krell, Microbiology, one of the project researchers. "The insect feeds on fir and spruce needles, and the trees eventually die."

The project is one of three national genome research initiatives involving U of G scientists that recently received more than \$10 million in support. It also involves Prof. David Evans, chair of the Department of Molecular Biology and Genetics, and Basil Arif, a research scientist with the Canadian Forest Service and an associate graduate faculty member in the Department of Microbiology.

Over the past few decades, the spruce budworm has taken a tremendous toll on Canada's \$20-billion-a-year forestry industry. Its population is cyclic, says Krell, and "right now, we're at the beginning of a surge."

With the adverse environmental effects of chemical pesticides, re-

search has turned to controlling the pests through biological agents. The project Krell, Evans and Arif are part of received more than \$4.6 million to develop viruses to stop the spruce budworm from reaching its tree-eating caterpillar stage.

"We're using biology to fight biology in a sense," Krell says.

The three researchers are among six at Guelph who will benefit from the funding announced by Genome Canada, the Ontario Genomics Institute and Genome Atlantic. In total, Genome Canada and its regional associations approved 34 new ge-

nomics research projects in April, worth \$311 million.

A second project involving Guelph researchers aims to bring ethical, legal and social considerations into genomics research, and a third is looking to identify key genes that are responsible for the health and quality of potatoes. Participating faculty are Prof. David Castle, Philosophy; Prof. Karen Finlay, Consumer Studies; and Prof. John Phillips, Molecular Biology and Genetics.

Continued on page 6

They're Women of Distinction

U of G professor, staff member, grads among recipients of 2002 YMCA-YWCA awards

PASSION, VISION and commitment. Those words, and more like them, define the women honoured by the 2002 YMCA-YWCA Women of Distinction Awards, which will be presented May 16 at the River Run Centre.

Among this year's eight recipients are Prof. Ann Clark, Plant Agriculture, and Pat Richards, coordinator of the lifestyle and fitness program in the Department of Athletics. Two U of G graduates, Nicola Otter and Jean Becker, are also being recognized.

Clark says she was "a bit speechless" to learn of her win in the science, technology and environment category.

"It's a very special award for me as it recognizes lifetime career direction more than a particular accomplishment," she says. "It also means a great deal to me to be recognized alongside all the great women in every category."

"What I really like about this program is that it recognizes women who are often not recognized, and the organizers go to such lengths to make everyone feel honoured, whether they're winners or not. It isn't so much about winning in a competitive way; it's more about mutual achievement or recognition, and that's really healthy."

The award process considers each nominee's activity as a role model for other women, their contribution to the community and individual achievement.

Clark was cited for her work as a scientist, scholar and professor. Her nomination statement cites "her courage to challenge the status quo and discuss controversial new developments in genetic modification of food crops."

Clark's profile "has increased tremendously" since she was first nominated for the award in 2001, says one of her nominators, Johanna Wandel, a PhD candidate and sessional lecturer in the Department of Geography. "She's now acknowledged as one of the very few experts in the organic field, and hardly a week goes by when I don't hear her on the radio or see her quoted in the mainstream press."

"Organics as a whole has gone mainstream, and people like Ann — who were there long before the inclusion of natural/organic sections in major grocery stores and the launch of labels such as President's Choice Organics — were instrumental in laying that groundwork. She's received recognition and respect from the entire spectrum of people involved in this sector, to the point where she's a household name among Ontario organic researchers and farmers. I couldn't be happier about her success and recognition."

Richards says she was "very excited" to learn she will receive this year's award for wellness, health and active living. "It's a gigantic honour. I'm very passionate about the work I do here, and the recognition is heartwarming."

Continued on page 9

Alfred Funding an 'Important Milestone'

Federal support will allow college to offer fast-track agri-food career training

COLLÈGE D'ALFREDO will receive \$778,000 from the federal government for new fast-track agri-food career training programs that support Ontario's francophone communities.

"This funding is a first for the college and an important milestone for us," says Alfred director Gilbert Héroux. "It will allow us to offer technical training in French for people who want to upgrade their skills for the workplace. Instead of enrolling in a full diploma program, people will be able to take short course

modules through a variety of means, ranging from classroom training to on-site sessions and distance education."

OAC dean Craig Pearson says the funding for Alfred will support OAC's long-term commitment to French-language education.

"It's a big step towards OAC being able to offer a selection of courses in French as well as English that will address the needs of francophone clients, not only in Ontario but in other provinces and internationally as well," he says.

The funding, to be allocated over three years, will support the development of programs specifically geared to industry needs, in high-tech agricultural practices, food processing and environmental technologies related to the college's Ontario Rural Waste-Water Centre.

Ottawa's financial contribution, originating from Human Resources Development Canada (HRDC) and transferred to Ontario by the Department of Canadian Heritage, is allocated under the Canada-Ontario Special Agreement for the Comple-

tion and Full Development of the French-Language Colleges in Ontario.

Don Boudria, minister of public works and government services and receiver general for Canada, who announced the funding on behalf of HRDC and Canadian Heritage, said it "will enable the only French-language agricultural college outside Quebec to continue to provide excellent services to our agricultural community."

BY STACEY CURRY GUNN

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BOARD OF GOVERNORS

Universities Step Up Lobbying Efforts in Response to Student Demand for Spaces

UOF G and other Ontario universities, working through the Council of Ontario Universities, have stepped up lobbying efforts to the federal government in response to the student demand for access to universities, president Mordechai Rozanski told the April 11 meeting of Board of Governors.

Rozanski said he has been involved in numerous ad-

vocacy meetings and planning sessions with executive head colleagues and with people at the highest levels of government. This is due to evidence that the pressure for access to universities for fall 2002 is significantly greater than original projections because of increased population growth, higher participation rates and fast-track.

Universities continue to seek full grant funding for student enrolment growth and for students currently enrolled in the university system, as well as additional resources to address issues such as quality, inflation and deferred maintenance, he said.

Rozanski told governors that his emphasis continues to be on a commitment to quality and accessibility and to meeting responsibilities to both current and incoming students.

The president reported on Guelph's latest research awards, including a Steacie Fellowship to Prof. Alejandro Marangoni, Food Science; a Chair in Environmental Design Engineering from the Natural Sciences and Engineering Research Council to Prof. Warren Stiver, Engineering; four more Premier's Research Excellence Awards; two more Canada Research Chairs; and more than \$10 million in support for genomics research (see story on p. 11). The board was also updated on the University's campus community campaign and facilities renewal and expansion.

Governors were presented with

an updated detailed design of the new science complex. A final proposal for the 373,000-square-foot building will come to the board in May. The building's design reflects the University's goal of maintaining and enhancing its reputation for biological and physical sciences, including providing outstanding research and teaching facilities for scientists and students and world-class infrastructure for collaborative research.

Among its key actions, B of G unanimously approved the University's new human rights policy and procedures. U of G has been involved in community-wide development of the policy, which included input from a broadly consultative working group made up of students, faculty and staff, as well as from several open community meetings. The new document replaces the 1993 sexual and gender harassment policy and improves consistency and fairness.

The president commended everyone involved and thanked Pat Case, director of human rights and equity, provost Alastair Summerlee and the various governance bodies

that were involved.

B of G also approved a preliminary Ministry of Training, Colleges and Universities operating budget for 2002/2003, along with the University's ancillary budgets and non-tuition-related compulsory student fees. Nancy Sullivan, vice-president (finance and administration), commended members of the Student Budget Advisory Group (SBAG) for their input and support for initiatives that require increases in a number of ancillary services. SBAG encouraged the U of G administration to continue to press the government to reinvest in higher education and to strive to keep the cost of attending university affordable.

Governors also approved the appointment of three new student members of the board, with one-year terms to begin July 1. The two new undergraduate members are Josh Alcock, a second-year political science student, and Nadia Salvaterra, a second-year biomedical sciences student. Josh Silvertown, a PhD student in biomedical sciences, will represent graduate students on the board.

Selection Committee for President Named

Board chair asks that successor be in place by late summer of 2003

A PRESIDENTIAL Selection Committee has been appointed to conduct a search for the University's next president and make a recommendation to Board of Governors.

Approved by the board at its April 11 meeting, the committee consists of three faculty members, two students and one staff member,

all elected by Senate, and three external members from B of G.

Senate-elected members are Prof. Iain Campbell, acting chair of the Department of Physics and former U of G provost and vice-president (academic); Prof. Ian Duncan, Animal and Poultry Science; Prof. Elizabeth Ewan, History; Kendra Holliday, a fourth-year

student in the B.Comm. program; Matt Routley, a PhD student in the Department of Botany; and Tracey Alberico, a senior adviser in Human Resources.

Committee members selected by Board of Governors are board vice-chairs Rita Burak and Doug Derry and chair designate Michael Walsh. Walsh, a BA, MA and PhD graduate of Guelph, will chair the selection committee.

Under the University of Guelph Act, B of G is ultimately responsible for appointing a president. Outgoing board chair Simon Cooper has asked that a successor be in place by the late summer of 2003, at the conclusion of president Mordechai Rozanski's term.

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UNIVERSITY
OF GUELPH

2002 HOPPER LECTURER NAMED

The 2002 Hopper Lecturer is John Stackhouse, foreign editor of the *Globe and Mail*. He will be on campus Oct. 21 and 22, available to visit classes and graduate seminars and meet informally with students and faculty. He will give the Hopper Lecture Oct. 22 at 7:30 p.m. in Room 113 of the MacNaughton Building on "Why No One Cares About Poverty." To schedule time with Stackhouse, contact Isobel Lander at Ext. 6904 or ilander@uoguelph.ca.

SMOKING BANNED

As of May 1, 2002, smoking will no longer be allowed in the Brass Taps or Peter Clark Hall. The University Centre management recently passed a motion to ban smoking in these locations to comply with the City of Guelph's smoking bylaw. The Central Student Association has banned smoking in the Bullring.

DISTANCE COURSE EARNS INTERNATIONAL KUDOS

The U.S. University Continuing Education Association (UCEA) has awarded U of G its Distinguished Course Award for the distance education course "Basic French: Listening Comprehension." It was developed by Prof. Dana Paramskas, French Studies, Linda Gibson of the Office of Open Learning (OOL) and OOL distance education production staff.

SENATE APPROVES MOTIONS

At the April 9 meeting of Senate, senators approved four motions: to establish a librarian emeritus title to recognize librarians for their contributions to U of G; to add an undergraduate student to the Research Board; to change the degree designation of the Guelph-Humber program in early childhood services, family and community services and gerontology from bachelor of applied arts to bachelor of applied science; and to create a B.Sc. major and minor in plant biotechnology. Senate also received U of G's preliminary 2002/2003 Ministry of Training, Colleges and Universities operating budget for review and comment.

ALUMNI-IN-ACTION TO MEET

Alumni-in-Action will hold its annual general meeting and spring luncheon May 15 at 11:30 a.m. at the Arboretum Centre. Guest speaker is 1992 OAC graduate Crystal Mackay. For tickets, contact Carla Bradshaw at Ext. 6657 or cbradsha@oac.uoguelph.ca.

VOLUNTEERISM RECOGNIZED

This year's recipient of the Student Volunteer Connections Volunteer Award is fourth-year environmental science student Lisa Romkey. The award recognizes significant contributions to Guelph and Wellington County through volunteer activities off campus.

U of G Student Teams Are SOY Innovative

Contest encourages students to find new uses and markets for soybeans



Project SOY participants Kelly Chapple, left, and Kate Ariens, students at Ridgetown College, created a soy-based lip balm that comes in various shades and scents.

PHOTO BY GRANT MARTIN

TROPICAL FISH FEED and soy-based biofuel took the top prizes in this year's Project SOY (Soybean Opportunities for Youth) contest.

Thirteen student teams participated in the sixth annual competition, which encourages U of G students to develop new uses and markets for soybeans, Ontario's number one cash crop. The students spent the fall and winter semesters developing their new products, with help from faculty advisers. The results were on display at the awards ceremony April 3 at the Arboretum.

Federal Agriculture and Agri-Food Minister Lyle Vancief and Ontario Minister of Agriculture, Food and Rural Affairs Brian Coburn were special guests at the event. The ministers, along with president Mordechai Rozanski, Ontario Soybean Growers chair Liam McCreery and Peter Hannam, president of First Line Seeds, presented the winners in undergraduate/graduate and diploma categories with first-, second- and third-place prizes valued at \$2,500, \$1,000 and \$500, respectively.

First place in the undergraduate/graduate category went to a soy-

based tropical fish feed called "Soy Fizzy," developed by food science graduate students Min Seok Chae and Vincent Sy.

First place in the diploma category was awarded to "J.S. BiSoy Fuel" — a renewable-resource fuel made from soybeans — developed by Kemptville College students Stephane Beriault and Jason McIntosh. This is the second year in a row that McIntosh has captured first place in this category. Last year, he won for Udderly Soft, a lavender-scented udder balm.

Second place in the undergraduate/graduate category went to Soya Pancakes — Complete Mix by biomedical sciences/toxicology student Janine Ewasko and food science undergraduates Kelly Maguire and Troy Sturzenegger. Third-place winner was SoyaFlame, a clean-burning fireplace log made from okara (a soy waste product), created by food science students Farhad Alibhai, Yuri Nakanishi and Joe Vandenberg.

In the diploma category, second place went to Collège d'Alfred student Susanne Lapointe for Soy and Maple Treats. Soy Good 4 Dogs, dog treats made by Kemptville College students Brittany Wagner and Stacie

Warren, captured third place. An honourable mention went to Ridgetown College students Allan Sutherland and James Webster for SoySlick, a ski and snowboard wax made from natural products.

Past Project SOY winning ideas have included edible food packaging, heart-healthy soy bagels, a coffee-like beverage made from roasted soybeans, and environmentally friendly soy-based candles.

Student participants in Project SOY who want to take their products to the commercialization stage can now apply to the Hannam Soybean Utilization Fund for assistance. The fund, which dedicates up to \$100,000 a year for advanced soybean research by students and faculty, was a gift to U of G from Hannam, an OAC graduate who was instrumental in initiating Project SOY, and his family.

Project SOY is sponsored by First Line Seeds and U of G, with additional support from the Ontario Soybean Growers, Maple Leaf Foods International, the Ontario Ministry of Agriculture, Food and Rural Affairs and Yves Veggie Cuisine.

BY ERINN WHITE
SPARK PROGRAM

Recruitment Conferences Set

HUNDREDS of secondary school students and their families will be descending on U of G this week for two recruitment conferences being co-ordinated by Admission Services.

The Guelph Interaction Conference runs April 25, giving secondary school students in grades 10, 11 and 12 a chance to experience the living and learning environment of a university community. Students can choose two sessions from more than 30 offerings by U of G students, faculty and staff. Topics include "What

Will You Learn at the University of Guelph?" with Prof. Fred Evers, Sociology and Anthropology; "Varsity Athletics at Guelph: The Student Athlete Experience" with Tom Arnot of the Department of Athletics; "Playful Pigs and Contented Cows: What Do Animals Need?" with Prof. Tina Widowski, Animal and Poultry Science; and "Tips for Financial Survival" with Joanne Poluch of Student Financial Services.

On April 26, U of G hosts the Guelph Connection Conference, providing an opportunity for

Guelph applicants and their families to explore the University and to register in interactive sessions related to academic disciplines and student services.

Student participants will learn more about life as a university student, hear about some of the research being conducted on campus and experience university-style lectures. Parents will have a chance to find out more about admissions, scholarships, co-op, residence life, athletics and a range of other academic and student life issues.

PEOPLE

PSYCHOLOGY PROF HONOURED

Prof. Steven Cronshaw, Psychology, has received honours from both the Canadian Psychological Association (CPA) and the Ontario Psychological Association (OPA). He has been elected a fellow of the CPA, an honour given to those who have made a distinguished contribution to the advancement of psychology or have given exceptional service to their national or provincial associations. He will be recognized at a ceremony May 30 in Vancouver. In February, the OPA's section on industrial-organizational psychology (IOP) honoured Cronshaw for his efforts to strengthen and develop awareness of IOP and for his contributions to the IOP graduate program at U of G.

FOOD SCIENTIST RECOGNIZED FOR LAB CONTRIBUTIONS

Prof. Mansel Griffiths, Food Science, director of the Canadian Research Institute for Food Safety, is this year's recipient of the International Association for Food Protection's (IAFP) Maurice Weber Laboratorian Award. The award recognizes outstanding contributions in the lab and a commitment to developing innovative and practical analytical approaches in support of food safety. Griffiths will receive the award at the annual IAFP meeting this summer in San Diego.

HALL NAMED FELLOW

Prof. Chris Hall, Environmental Biology, has been elected a fellow of the Weed Science Society of America. The society, which promotes the development of weed science and technology through education, research and publications, names no more than six fellows a year. Hall teaches courses on herbicides and pesticides and is studying the use of recombinant antibody technology to express antibodies in bacteria and plants.

GRYPHONS RUN IN SPAIN

Cross-country Gryphons Reid Coolcast and Michaela McClure and head coach Dave Scott-Thomas joined a group of 11 athletes and three coaches who travelled to Santiago de Compostela, Spain, this month to represent Canada at the 13th World University Cross-Country Championships. The event showcased about 200 students from universities worldwide. Canada's men's team placed sixth overall, and the women's team placed seventh.

ENVIRONMENTAL BIOLOGIST GIVES TALKS IN COLOMBIA

Prof. John Sutton, Environmental Biology, gave talks on biological control of plant diseases at an international workshop held at Universidad Militar Nueva Granada in Bogotá, Colombia, in March. He also met with researchers and students at the university and at the Colombian Corporation for Agricultural Research to discuss various research projects. In addition, he visited commercial greenhouse growers and the Colombian Association of Flowers Exporters.

TOWARD 2010

THIS IS PART of an ongoing series to introduce U of G's newest faculty to the University community.

NICHOLAS BERNIER

Assistant professor, Zoology

Background: B.Sc., McGill; M.Sc., University of British Columbia; PhD, University of Ottawa

Teaching objectives: In addition to providing a strong foundation in comparative endocrinology, physiology and developmental biology, I aim to foster independent and integrative thinking and, on a broader scale, to raise awareness and enthusiasm for the life sciences and research.

Research objectives: Identifying and understanding the pathways that mediate the appetite- and growth-suppressing effects of stress in fish. We use experimental approaches ranging from the molecular to the whole-animal level to determine how specific neuroendocrine interactions at the cellular level translate into physiological and behavioural differences.

Attraction to U of G: The expertise and reputation in aquatic sciences and the quality of the facilities for research in this area.

ments by former graduates and members of the Department of Chemistry and Biochemistry, as well as the well-maintained instrumentation.

XINING LI

Professor, Computing and Information Science

Background: PhD, University of Calgary

tasks on behalf of a (human) user.

Attraction to U of G: Highly ranked university in a small, peaceful city.

DICK MOSSER

Associate professor, Molecular Biology and Genetics

Background: B.Sc., PhD, University of Waterloo

Teaching objectives: To illustrate that simple and elegant molecular

determine how heat shock triggers the apoptotic cell death program and how this process is inhibited by the heat shock protein hsp70.

Attraction to U of G: The University is renowned for its research in the biological sciences.

VIVIAN SHALLA

Assistant professor, Sociology and Anthropology

labour market, and to instil in them a passion to effect positive change in the world of work.

Research objectives: To examine the changing nature of work and employment, globalization and restructuring, and the work-family nexus. I also have a Social Sciences and Humanities Research Council standard research grant to study working-time issues in the context of globalization, and I'm completing a book titled *Losing Ground in the Information Economy: The Degradation of Work and the Radicalization of White-Collar Workers at Air Canada*.

Attraction to U of G: The opportunity to participate in ongoing efforts to maintain and strengthen the University's excellent reputation, and the possibility to pursue research and teaching interests.



Nicholas Bernier



Michael Denk



Xining Li



Dick Mosser



Vivian Shalla



Carl Svensson

MICHAEL DENK

Associate professor, Chemistry and Biochemistry

Background: M.Sc., Ludwig Maximilians University, Germany; PhD, Technischen Universität München, Germany

Teaching objectives: To reduce the staggering complexity of chemistry to a level that can be understood and remembered.

Research objectives: To create interesting molecules and materials with simple means.

Attraction to U of G: Glowing com-

Teaching objectives: To make difficult matters simple in a fun and explicit way.

Research objectives: Intelligent Mobile Agents that can autonomously migrate over large-scale computer networks to perform their

mechanisms are used by organisms to solve complex biological problems.

Research objectives: To uncover the mechanisms controlling the survival of cells under stress. The specific aims of my research are to

Background: M.Sc., Université de Montréal; PhD, Carleton University

Teaching objectives: To help students develop an understanding and critical assessment of how social relations are structured and contested in the workplace and in the

CARL SVENSSON

Assistant professor, Physics

Background: B.Sc.Hon. and PhD, McMaster University

Teaching objectives: To facilitate a deeper understanding of the key concepts by placing them within the context of the students' *a priori* experiences, and to encourage an open-minded approach to new information that allows one's framework of understanding to be modified as additional evidence is uncovered.

Research objectives: My research involves precision measurements of nuclear transitions, with the ultimate goal of achieving a better understanding of the fundamental interactions of the subatomic particles that form the basic building blocks of the physical world around us.

Attraction to U of G: The broad range of interests that flourish in the Physics Department, together with an open and collegial spirit that provides many opportunities for effective interactions between individuals specializing in different subfields.

Science Complex Will Promote High-Quality Learning Experiences for Students

APRESENTATION will be made shortly to the Physical Resources and Property Committee of Board of Governors on the University's new science complex as part of the SuperBuild program. If the final design proposal is approved by the board in May, construction is expected to begin this summer.

The complex is shaping up to be the most ambitious single architectural project in the history of the University. When completed, it will be an estimated 373,000 square feet. Embedded in its design is the intent to seamlessly integrate teaching and research activities across disciplines within state-of-the-art facilities, thereby promoting discovery and high-quality learning experiences for a growing number of students.

To be located on Gordon Street where the Chemistry and Microbiology Building now stands, the science complex will be attached to the MacNaughton Building and next door to the Reynolds Building and the library. As such, it will centralize the physical, biological and computational sciences on campus, providing new laboratory space and first-class research space for chemistry, biochemistry, microbiology, zoology, botany and molecular biology

and genetics.

The science complex will accommodate faculty, staff and students from the Axelrod and Chemistry and Microbiology buildings and some faculty from the MacNaughton Building. In addition, space will be renovated in MacNaughton for faculty in the departments of Chemistry and Biochemistry, Physics, and Mathematics and Statistics.

Robbie Young + Wright is the Toronto architectural firm hired to handle the science complex project. The firm also designed the Bovey Building in the early 1990s.

For almost two years now, the architects have been working hand in hand with a U of G committee to transform the University's vision into blueprints. The first step was a series of broad consultations with the University community, co-ordinated by Angelo Gismondi, who manages the project on behalf of U of G. A steering committee made up of representatives from across the campus, along with its many subcommittees, worked with all departments in the College of Biological Science and the College of Physical and Engineering Science to determine requirements for the science complex: teaching labs, research labs, support

rooms, offices, administration and other components.

Construction is scheduled to take place in phases. It's anticipated that the first occupants will move in in the spring of 2004 (primarily teaching labs, chemical storage and a computer commons) and that the complex will be complete in mid-2006.

The external context — how the building will look and relate to its surroundings — is influenced by goals set out in the University's master plan, which emphasizes maintaining green space and the architectural character of the campus, and promoting efficient circulation routes for pedestrians. Those considerations have led to an innovative triangle-shaped building plan that is designed to be "open and accessible," says architect Richard Young.

This shape opens up a major courtyard between the front of the building and Reynolds Walk. It also creates an interior courtyard in the centre of the building.

Covered by skylights, the interior courtyard would be a centre of activity for the entire complex. The plans anticipate an Internet café, food and beverage services, an amphitheatre for presentations, an information commons

and workspaces for students.

The glass front of the main entrance wing will reflect the landscaping of the exterior courtyard. This wing, three storeys high with each floor connected to MacNaughton, is designed to facilitate the flow of people throughout the complex. The first floor will have student support services, including academic and career counselling, student government offices, computer labs and offices of the CBS and CPES deans. An entry stairway will take people up to the second and third levels, which are mainly teaching labs for undergrads.

The other two wings, housing the majority of the research labs, related offices and some teaching labs, will both be four storeys high. Their exteriors will have a "quieter" look that incorporates traditional materials and melds with the older buildings on campus.

A research wing parallel to the Reynolds/J.D. MacLachlan buildings will house the Advanced Analysis and Training Centre on its first floor.

Other significant features of this wing of the building are the botany greenhouses and growth chambers on the roof.

BY STACEY CURRY GUNN

Students Vital Contributors to Campus Projects

UOF G STUDENTS have been an integral part of the campus community campaign. In fact, one of their most significant gifts to the University—the Gryphon Dome—was several years in the making. In 1998, graduate and undergraduate students held a referendum in which they agreed to finance, through their fees, construction of the \$2-million athletic facility.

The dome, which opened officially in January, is half the size of a football field and includes two indoor soccer fields and a four-lane, 200-metre running track. It's estimated that more than 6,000 students use the dome each year for intramural sports activities. It provides indoor training space for varsity athletes, has been used for Alumni Weekend, special events, coaching clinics and Guelph Youth Soccer, and will be the site of this year's summer convocation.

"The dome really represents the commitment of University of Guelph students to better athletics facilities," says Laurie Halfpenny-Mitchell, a U of G graduate and chair of the Athletics Advisory Council. "It's a great facility that has already significantly enhanced our programming and will be here for the next several generations of students."

Through another referendum vote — this one held last month — U of G students have also decided to establish an endowment fund to provide bursaries for students ineligible for traditional forms of financial aid, such as the Ontario Student Assistance Program (OSAP), but who nevertheless need support.

The fund — to be known as the Central Student Association Opportunity Trust — was championed by the Central Student Association (CSA).

Undergraduate student Todd Schenk, communications commissioner for the CSA and a co-chair of the campus community campaign, says the endowment resulted from a growing recognition by the CSA that there are many students who don't qualify for either provincial student aid or U of G scholarships and bursaries, yet they are still in need.

"We thought that as students, we should be proactive and set up this fund as a partial solution to the problem of students who find themselves in this aid gap," says Schenk. He adds that because most students can see the merit of such a fund, selling the idea to them wasn't difficult. "Students generally are very supportive of one another."

Bursaries will be available in January 2003 to full- and part-time undergraduate and diploma students who don't qualify for OSAP or the Canada Student Loan Program; the value of the awards will range from \$500 to \$1,000.

For the first six years of the fund — and until the endowment grows — the total amount available for awards to students will be modest.

Schenk adds that through a partnership with Alumni Affairs and Development, the University will also seek support for this new fund from U of G alumni. The hope is that over time, the endowment fund will be able to offer substantial assistance each year.

BY SUZANNE SOTO



Members of the College of Arts proudly display their campus community campaign mugs to show they have contributed to the campaign. Front row, from left, are Prof. Daniel Chouinard, director of the School of Languages and Literatures; college dean Jacqueline Murray; Prof. Mary Cyr, director of the School of Fine Art and Music; and Prof. Len Adams, French Studies. In back are Prof. Jamie Snell, chair of the Department of History; and Prof. Harry Lane, co-director of the School of Literatures and Performance Studies in English.

Campaign Support, Province Enable Strategic Growth

AS MEMBERS of the U of G community are aware, the priorities of the campus community campaign are to raise funds to attract the finest faculty, staff and students and to provide them with the best facilities. Many of the individual unit and department projects chosen by the campus community are contributing directly to these goals and making U of G a better place to learn, teach, work and conduct research.

We have featured many of these stories throughout the semester. Now we want to highlight some of the major physical changes that will be occurring on campus over the next few years, partly as a result of the campaign.

Thanks to both the campaign and government funding provided by SuperBuild for facilities expansion, U of G is in the midst of a building boom the likes of which has not been seen in more than three decades.

One of the biggest construction projects is the 52,000-square-foot classroom complex, a key component in the University's plans to accommodate the expected surge in student enrolment caused by the "double cohort" in 2003 and a projected increase in overall university participation in the future.

Designed by Robbie/Young + Wright Architects Inc., the complex will be a hub of teaching and learning for students from all colleges and disciplines: the arts, humanities, social sciences, engineering, veterinary medicine, agri-food and the biological and physical sciences.

Located in the heart of the campus near Branson Plaza, it will accommodate 1,530 students in leading-edge facilities, consisting of modern classrooms with computer-based multimedia equipment for the delivery of technology-assisted courses. Features include computer networking capabilities and Internet access at teaching and student stations, video conferencing, an electronic white board networked to student stations, and electronic document-sharing capability.

The complex will consist of four lecture halls of 600, 400, 200 and 120 seats, as well as two classrooms seating 60 and 30. The classrooms will feature a range of designs, from fixed to flexible seating, to meet learner-centred teaching strategies. The complex will also enable the University to increase its capacity for conference use over the summer months.

The completion of the classroom complex will mark the beginning of a new era for U of G. The facility is expected to not simply meet the University's growing capacity needs, but to do so with a one-of-a-kind, first-tier teaching and learning facility.

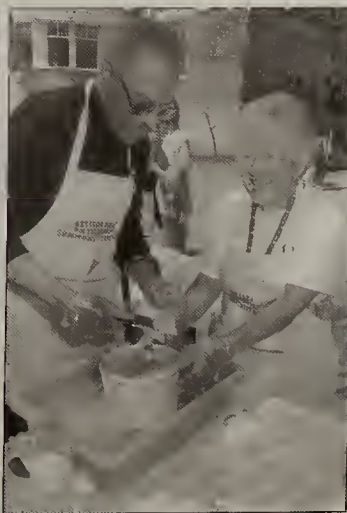
The complex will also enhance Guelph's ability to play a leading role in the education of the highly qualified graduates critically needed and keenly sought after by business, industry, education and government.

More important, the teaching and learning activities enabled by the complex will complement the University of Guelph's ability to achieve its bold vision of being the leader in a knowledge-based society, with a determined, focused community of researchers, scholars, students, alumni and industry partners working together to improve the quality of our lives while offering a first-class education.

And the Winners Are:

HERE ARE THE WINNERS of the final prize draw for those who donated to the campus community campaign by April 16:

- Gryphon tickets: Robin Fraser, Department of Psychology.
- \$100 Express Card credit: John Cant, Animal and Poultry Science
- Theatre in the Trees tickets: Valerie Allen, School of Hotel and Food Administration.
- Ice cream: Bonnie Hamilton, Department of Clinical Studies



April 16 couldn't have been a better day to celebrate the campus community campaign with free ice cream cones. With temperatures at almost 30 C, faculty, staff and students turned out in droves to get their cones at one of four locations on campus. At left, graduate student Blythe McKay enjoys the cool treat. At right, chancellor Lincoln Alexander and retired zoology professor Mary Beverley-Burton were among the community campaign members scooping out the ice cream, which was provided by the Department of Food Science.

PHOTOS BY MARTIN SCHWALBE

It's All in the Genes

Genomics and microarray facility in the Department of Molecular Biology and Genetics offers state-of-the-art technology for campus researchers

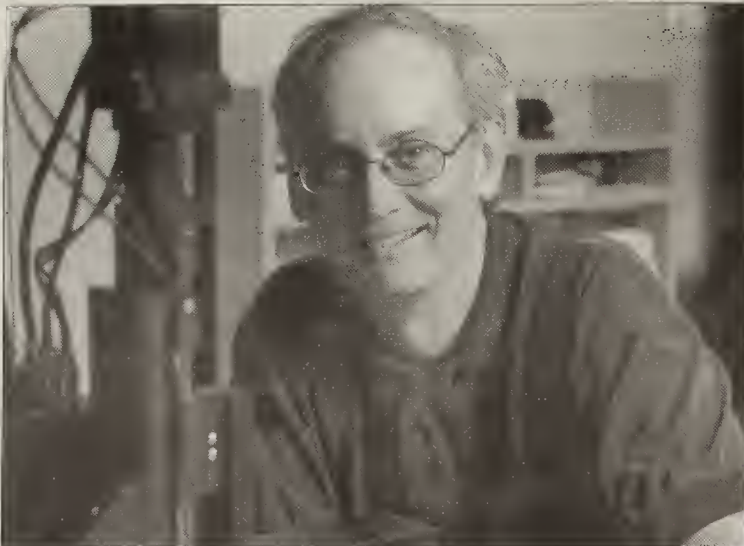
FOR A LOOK AT U of G's role in the growing field of genomics research, take a peek at the rather unprepossessing equipment in a laboratory just down the hall from the Axelrod Building office of Prof. David Evans, chair of the Department of Molecular Biology and Genetics.

Unprepossessing, yes, but it packs a wallop when it comes to offering state-of-the-art technology for campus researchers investigating the genetic makeup of everything from the bane of the Canadian forestry industry to boar taint in pigs.

Last fall saw the delivery of the last of four main pieces of equipment, worth a total of about \$500,000, to the recently established genomics and microarray facility, which is located in two labs in Evans's department.

The instruments sequence DNA, process DNA samples, prepare DNA slides and scan microarrays to analyse patterns of gene expression. Operated by technicians Margaret Howes and Jason Ho, the equipment serves the needs of customers from four colleges — CBS, CPES, OVC and OAC — as well as researchers from the Food System Biotechnology Centre.

"It's becoming a very common discovery tool," says Evans, referring to slides or microarrays that let him and other researchers study patterns of gene expression. About 12 faculty members or groups are now using the facility's DNA array technology to study expression of thousands of genes in certain plants and animals, as well as in other organisms such as viruses and yeast. Among their goals: learning how genes control development, what goes wrong during disease, how pathogens infect their hosts and how to develop useful new drugs.



Prof. David Evans uses the genomics and microarray facility to study how poxviruses infect host cells.

PHOTO BY MARTIN SCHWALBE

Those goals are fuelling interest in genomics research at labs in Guelph and across Canada, says Evans. He and five other U of G researchers were among the Canadian scientists who received a total of more than \$300 million this month for national genome research projects from Genome Canada and other organizations (see story on page 1).

Evans studies how poxviruses infect host cells, including what virus genes are turned on and off during infection and how that process is regulated.

"I'm interested in seeing whether chip technology can identify the genes expressed throughout different stages in the process of virus infections," he says.

He is also a participant in a Ge-

nome Canada-funded project on spruce budworm with Prof. Peter Krell, Microbiology, and Basil Arif of the Canadian Forest Service. This project will use gene sequencing to study genes involved in the development of the spruce budworm, a major pest in the forest industry.

Having access to facilities in the Axelrod Building makes this work cheaper and easier than sending samples to other Ontario research institutions, Krell says.

Botany professor Barbara Mable uses the microarray facility to study molecular changes in yeast cells, such as those used in the fermentation industry.

She's especially interested in how gene expression in yeast changes when an entire genome is dupli-

cated, a process called polyploidization.

Mable also expects to use the equipment to study genome duplication in plants.

"Polyploidy is very common in plants, but may have significant effects on the breeding system, ecology and demography of plants in which it arises," she says. "The microarray facility will enable us to compare changes in gene expression across a vast number of genes, something that wasn't possible using previous methods."

In the Department of Animal and Poultry Science, Prof. Jim Squires and graduate student Jennifer Stewart use the scanner to examine slides spotted with thousands of different samples of DNA, to identify

pig genes that cause boar taint, a problem in meat quality from uncastrated males.

Squires uses arrays containing up to 1,700 human genes obtained from the Ontario Cancer Institute.

"No porcine chips are available," he explains, adding that genetic and biochemical similarities between humans and pigs make this kind of cross-hybridization between human and pig DNA sequences possible. "We're using humans as a model for pigs, which is kind of an interesting twist. You can learn a lot by looking at what's known in one species and seeing whether it applies to others."

Having identified several key genes using microarrays and other methods, he plans to investigate which genes are most important in boar taint and identify genetic markers for animals without the problem. He says the pork industry is interested in his work for breeding programs for pigs that would grow leaner without the need for castration. Although castration prevents boar taint, it also reduces lean meat yield and feed efficiency.

Identifying promising breeding lines through genomics would allow producers to sidestep these problems, he says. "You're improving productivity, but also improving animal welfare at the same time. It's kind of rare."

Squires has also worked on microarrays with OVC faculty in the Department of Pathobiology and the Department of Biomedical Sciences.

"I've been hoping that, as part of this process, we would put together a users' group for microarray technology," he says. "If you come up with a new way of improving sensitivity or reliability of methods for data handling, then it could be shared around the group."

BY ANDREW VOWLES

Study Aims to Reduce the 'Genomics Divide'

Continued from page 1

"This is very exciting news for the University of Guelph," says Prof. Alan Wildeman, vice-president (research). "It involves researchers across a broad spectrum and provides them with the opportunity to lend their expertise and participate in the discovery of breakthroughs in genomics."

Working with Arif and other scientists at the Great Lake Forestry Centre of the Canadian Forest Service and Natural Resources Canada in Sault Ste. Marie, Krell and Evans hope to introduce a virus or find ways to make existing viruses more effective against the spruce budworm. The virus would be specific to the insect and not harm other creatures or the environment.

"But to do this, we need to know more about the biology and genomics of these viruses as well as their insect hosts," says Evans.

They will concentrate on study-

ing how the viruses, which specifically infect these insects, function. The work involves sequencing virus genomes, looking at the genes encoded by these viruses and studying how these genes control infection. For example, viral genes may possibly be modified to change the insect's feeding behaviours and protect trees from severe defoliation.

Also working on the project are graduate students and post-doctoral researchers.

The newly funded project on the ethical, legal and social considerations of genomics research involves Finlay, Phillips and Castle, who is the project's co-investigator. They will work to reduce the "genomics divide" between developing and developed countries. This project received more than \$2.8 million in support.

"We will be conducting research to ensure that the benefits of the un-

folding revolution in health and nutritional genomics and biotechnology, which encompass health and agriculture, are available to all," says Castle, who has an affiliation with the Food System Biotechnology Centre to identify and assess ethical issues posed by research and development of emerging genomics technologies.

The researchers will study ethical strategies in multinational pharmaceutical and biotech companies and make recommendations for good business practices. Castle and Finlay will be involved in developing ethical frameworks for genomics as applied to nutrition or "nutrigenomics."

"This is an emerging science that blurs the traditional distinctions among agriculture, medicine and nutritional science," says Castle.

"Nutrigenomics offers the potential to enhance the health and nutrition

of millions of people."

For example, crops could be developed specifically for developing countries to supply more nutrients, such as rice that is enriched with vitamin A or iron. Diets can also be tailored to meet specific nutritional needs of human populations identified using genomics.

"But there are several ethical concerns that arise in anticipation of nutrigenomics," he adds. Exploring and addressing these concerns is part of the project.

Castle, Finlay and Phillips will also conduct a case study of Guelph's "enviropigs," which produce manure that contains less phosphorus, making the pigs more environmentally friendly. The researchers will look at ethics, consumer concerns, public reaction and other related issues.

"Our project has a very broad focus," says Castle. "It seeks a con-

vergence in genomics, ethical, environment, legal and social research, across health, nutrition, agricultural and environmental applications of genomics and biotechnology."

He is also involved in another large-scale genomics project supported by Genome Canada in Atlantic Canada that received \$3 million in support. It will look at the biological targets related to the health and quality of potatoes, which are the fourth most important crop in the world and a major staple food for more than a billion people. The project will consolidate existing genetic information about potatoes and work to identify an anticipated 10,000 further genes.

Castle will work with Guelph PhD graduate Keith Culver, director of the University of New Brunswick's Centre for Social Innovation Research on Intellectual Property and Regulatory/Enforcement Questions.

BY LORI BONA HUNT

A SMALL REVOLUTION

Award-winning book on the margins of literature still draws world interest a decade later

By STACEY CURRY GUNN

A DECADE AGO, Prof. François Paré, Languages and Literatures, wrote a book that changed his life. The scholar of 16th-century literature was on sabbatical in Holland, ensconced in a house facing the North Sea, prepared to write a book about the rise of the printing press and its impact on poetry. But one morning, after he had written about 50 pages on the subject, he stopped.

"I remember it precisely," he says. "I said to my wife: 'I don't think I'll continue with this book because it's not important.'"

Paré decided that what was important was exploring and articulating the dynamics of minority-language cultural expression. The impetus for the project came from his own experiences as a native of Longueuil, Que., living in Ontario since 1977. (A PhD graduate of SUNY Buffalo, he joined the faculty of U of G in 1978.) He also wanted to examine how it was that five European cultures — English, French, German, Spanish and Italian — had come to dominate and define the world's literary canon.

The result was *Les littératures de l'exiguïté* (in English, *Exiguïty, Reflections on the Margins of Literature*), published in 1992. In 1993, the book won a Governor General's Award.

"Winning that award, from that moment, changed my life entirely," says Paré. "I went from being your typical average professor to a situation where I now must refuse more than half of the speaking requests that come my way."

The word *exiguïté* means "small space." At the time, Paré was worried that, even in French, people wouldn't understand what he was talking about. But the uncommon word, which can refer to mental or physical space, has proven apt. "People use the word now, and I know it came from my book. It's interesting to see the life of a particular word in the academic community."

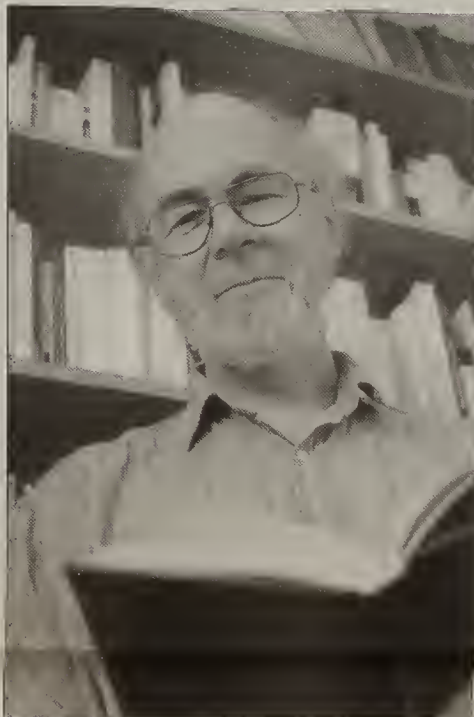
The genesis of Paré's theories arose from his immersion in Ontario's francophone society, as a writer for the Franco-Ontarian cultural magazine *Liaison* and the Ottawa-Gatineau newspaper *Le Droit*, as a member of French-Canadian associations at the local and provincial levels, and as part of the 1,200-strong francophone community in the Guelph area.

"It's difficult to work, I realized, in a smaller culture," he says. "The culture works on its own and is not linked to Quebec necessarily. If a writer writes a book in francophone Ontario and it's not published in Quebec, where is the book sold? Who reads it? Who teaches it? There isn't the usual infrastructure for the circulation of culture. *Exiguïté* comes out of this experience. I wanted to understand what was so special about cultures like that."

As Paré embarked on his new research project in Holland, he did so empty-handed at first, without a single French-Canadian book or anything about minority cultures. So he went to work in the University of Leiden library. And he began to look at other minority communities around the world. He soon realized the world "is like the community I worked with in Guelph."

On another level, Paré was intrigued by the rise of the world's dominant literary cultures.

"What I learned as a student of literature came out of the larger dominant cultures, mostly European. They tended to define literature, how it was circulated, who is considered a writer. The definition was universal, and as a student, I never questioned that. This book questions that."



He traces the cultural domination of "literature" to the Renaissance and the rise of the printing press. "If you knew how to write and had access to people who could typeset, you made it. You also had to realize that the printing press was a turning point. The Portuguese, for example, were powerful at that time, but it seemed that they didn't understand the importance of the printing press and how to exploit it. We consider the dominant cultures so essential that everybody in the world teaches them, but nobody teaches Portuguese or Romanian, for instance."

As Paré explored the topic, he examined numerous "small" cultures: groups in Africa, North American and Australian aboriginals, the French-language minorities of Ontario and Acadia, and smaller nations in Europe.

In the end, he concluded, "the four or five dominant cultures that define literature are exceptions. Literature does not work like that in most of the world. Writers are poor, they lack infrastructure and, largely, nobody reads them. The exception is the rule."

Paré's observations and theories caught the attention of people from small cultures around the world. *Les littératures de l'exiguïté* has been translated into English, Romanian and Uzbek, with an Italian translation due to be published in 2002. The subject has inspired numerous articles, papers and conferences.

"It's been empowering, especially for smaller cultures that felt completely neglected by universities," he says. "These cultures are fighting for a place in the larger literature."

The semi-autonomous region of Corsica in southern France

is one example. Paré went to Corsica in 1995 at the invitation of the region's government to talk to them about their language and its future. "They all had my book, and they had read it. I was amazed by that."

Most recently, in early April, he travelled to Western Canada to deliver six lectures at the universities of Lethbridge, Regina and Saskatchewan.

Paré's scholarship in the field of Franco-Ontarian literature was recently recognized with an award from the University of Ottawa's Centre for Research on French-Canadian Culture (the Prix du CRCCF 2002).

And now, a francophone filmmaker from Toronto, Izabel Barsive, is working on a half-hour documentary project about Paré for the TFO educational television network. The documentary (subject to the success of a Téléfilm Canada funding application) would be part of a series on French-Canadians from outside Quebec who have an international reputation.

Part of the filming is scheduled to take place in Corsica in June, where Paré will revisit the people he met several years ago. Barsive also plans to interview Paré's publisher at Le Nordin, as well as his students and colleagues at U of G.

"I want to show the impact of his writing *Les littératures de l'exiguïté* 10 years later," she says. "I want to know why the Corsicans felt so connected by his writing. Everybody was very touched by his book and his philosophy about minorities and culture."

For his part, Paré looks forward to returning to Corsica to see "whether anything has changed, whether any of the ideas and suggestions have worked."

Ten years after the publication of the book, he still finds the outpouring of enthusiasm for his work somewhat unnerving.

"I'm not really sure of anything, and to hear people quote my work as if it's the truth is weird; it's very strange."

But at the same time, he jokes that he suffers from "Celine Dion syndrome. People want me to talk about *Exiguïté* again and again, and I have three other books since that. They want me to sing the old songs, when I have new songs."

But over the years, Paré has added new verses to the old songs in *Exiguïté*, developing ideas about globalization, the rise of the Internet as the latest technological breakthrough affecting the dissemination of culture and the fragmentation of cultures.

"When you look at the diversity of culture, there are 6,000 languages in the world. Fifty per cent of the world's books are published in English and 90 per cent are in 10 languages only. The printing press was developed 500 years ago, but most of the world still doesn't have access to it today. In 500 years, it didn't happen for the printing press, and the same thing is happening today with the Internet. Eighty per cent of Internet content is English alone. Languages disappear."

"How many cultures and languages won't make it? That's why so many North American native populations are so active in putting themselves and their language on the network."

The rise of globalization and the Internet has dampened the confidence Paré felt 10 years ago about the ability of smaller cultures to promote their literatures, but he still has hope for a future where cultural diversity exists. "I'm less optimistic, but not entirely pessimistic."

This summer, Paré plans to start his fifth book, which will explore notions of community "and the survival of those notions in a world where people say only individuals are left."

PHOTO BY MARTIN SCHWABE



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Weather It Will or Weather It Won't

Computer model will predict the effects of lakes on regional climates

FRESHWATER LAKES can render some of Canada's most unpredictable and isolated weather patterns — witness the surprise storm that claimed the Edmund Fitzgerald in Lake Superior in 1975. But U of G researchers are collaborating with scientists across Canada to create a sophisticated computer model that can predict both the effects of lakes on regional climates and the effects of regional climate on lakes.

Prof. David Swayne, Computing and Information Science, says current weather models focus mainly on a lake's effect on the atmosphere or vice versa. "Our goal is to link the two areas with a comprehensive model," he says.

Compared with air or land, water is exceptionally good at storing heat.

It absorbs heat during the warm days of summer, then releases it slowly over the winter. This leads to a moderate climate in areas around the shores of large lakes. In contrast, places where surface water is in short supply, such as the Canadian prairies, experience temperature extremes. Small lakes have similar moderating effects on the climate, but these have never been fully explored.

For the project, weather data will be gathered across Canada at major and minor lakes, including the Great Lakes in Ontario and Great Slave Lake in the Northwest Territories. Following the fieldwork, the researchers will develop a database to house the information. They will then create a model based on the data they've gathered about the cor-

relations between lake and land climate.

Swayne also hopes the model can be used to forecast the effects of climate change on regional climates. By better understanding how lakes affect the areas around them, it's possible that changes could be predicted and appropriate adaptation measures taken, he says.

As an offshoot, this project will also benefit U of G's Computing Research Laboratory for the Environment (CRLE). Two graduate students and a post-doctoral researcher will be working with state-of-the-art programs at CRLE to put the model together.

"In this field, it's crucial to develop highly qualified personnel for future research into the environment," says Swayne. "This project doubles as a technology transfer to a new generation of environmental scientists."

Other participants in this project are Wayne Rouse, professor emeritus of geography and geology at McMaster University; David Lam and William Schertzer of the National Water Research Institute; René Laprise of the Department of Earth and Atmospheric Sciences at the University of Quebec at Montreal; Murray MacKay of Meteorological Services of Canada; and three graduate students and a post-doc.

This research is sponsored by the Canadian Foundation for Climate and Atmospheric Sciences, the Meteorological Service of Canada, the National Water Research Institute, the University of Guelph and McMaster.

BY LUCAS HABIB
SPARK PROGRAM

LETTERS

COMPREHENSIVE INFORMATION FROM FARM TO FORK

Each year, one to seven million Canadians become sick from the food and water they consume. Consumer concerns and inquiries about food safety are also increasing.

U of G's Food Safety Network, contrary to the inaccuracies, assertions and conspiracy theories of Prof. John McMurtry (@Guelph, April 10) provides comprehensive information on food safety issues from farm to fork.

The network provides research, commentary, policy evaluation and public information on issues that range from farming practices to safe food-handling tips for consumers. Such research and discussion would be incomplete without the latest information about genetically engineered foods.

It is regrettable that Prof. McMurtry has chosen to attack me personally instead of engaging in a meaningful discussion about protecting and enhancing the Canadian food system. Information about farm-to-fork food safety systems is available at www.foodsafety-network.ca.

Prof. Doug Powell
Plant Agriculture

NETWORK SEPARATES FACT FROM OPINION

I find it interesting that Prof. John McMurtry, with whom I have never had a conversation, knows the motivation that caused me to initiate the exploratory work that resulted in the establishment of a thought-provoking, challenging entity now called the Food Safety Network. He might also check out the origin of the Donner Foundation.

I would recommend that before Prof. McMurtry challenges the mission of the Food Safety Network, he dial up www.foodsafety-net.ca to become acquainted with the total thrust of its work.

The work that Prof. Doug Powell and his colleagues undertake impresses me because they are trying to separate fact from opinion and because they welcome meaningful dialogue.

Ken Murray, CM

UGRA CLARIFIES VOTE

At the Feb. 14 meeting of the Pension Committee of the U of G Retirees Association (UGRA), a proposal made to the Working Group on Pension Issues by the University administration (which included ad hoc inflation protection of two per cent for retirees and a contribution holiday for employees) was considered and discussed in some detail. As a result, several questions were generated, all of which were posed to Nancy Sullivan, vice-president (finance and administration), and Vic Reimer, assistant vice-president (human resources), at the subsequent meeting of the Advisory Committee on Pensions and Benefits (ACPB). With those questions answered,

most of our concerns were allayed.

There is one point, however, that is still in contention. We are concerned with the entire concept of "contribution holidays." We understand the reasoning for the substance of the proposal (that it should give balance of distribution of available pension plan surplus funds between active staff and retirees and that it should have minimal cost to the University) and we appreciate U of G's continued commitment to the concept of full ad hoc inflation protection. But we are concerned that contribution holidays draw down the available pension plan surplus without contributing to improvements.

It seems to us that the University has, over the past few years, conducted its responses to requests for pension plan improvements in such a way as to continually increase the available surplus, at the cost of active pension plan members and retirees, to the point where the federal government has denied the University the freedom to contribute to the plans. This, of course, leaves in the operating budget funds not normally available to it. Add to this the fact that in discussions at the working group, the methodology for solvency calculations proposed this year by the University were debated and that, until now, U of G had continually denied the value and efficacy of this approach, and one is given cause to question the University's "good faith" in prior and current discussions.

Had the new methodology been incorporated earlier and had many of the improvements suggested by the ACPB been instituted, the pension plan surplus would not have assumed its present obscene mass, and it's possible that the current extreme dissatisfaction of faculty, professionals and the unions with the effectiveness of ACPB's current form could have been avoided.

In addition, contribution holidays have always been a bone of contention, whether for employer or employee. The first case benefits only the University's operating budget, and the second benefits no one. An employee contribution holiday puts some additional funds in the pockets of employees and seems like an increase in wages until it disappears the following year, and it in no way improves the pension plans. For these and other reasons, the UGRA opposes contribution holidays.

Consequently, when the vote was taken at the recent ACPB meeting, on instructions from the UGRA executive, our representatives voted to accept the proposal with the proviso that we advise Nancy Sullivan in writing of our position and that the following statement be read into the record:

"UGRA has voted to accept the proposal, but this acceptance does not imply an endorsement of pension holidays. Our preference is to have outstanding issues addressed."

Bob Logan, Chair, Pensions Committee, UGRA
Sob Liptrap, Chair, UGRA

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Biochemist studies how cancer cells adhere to tissues and how they move around the body

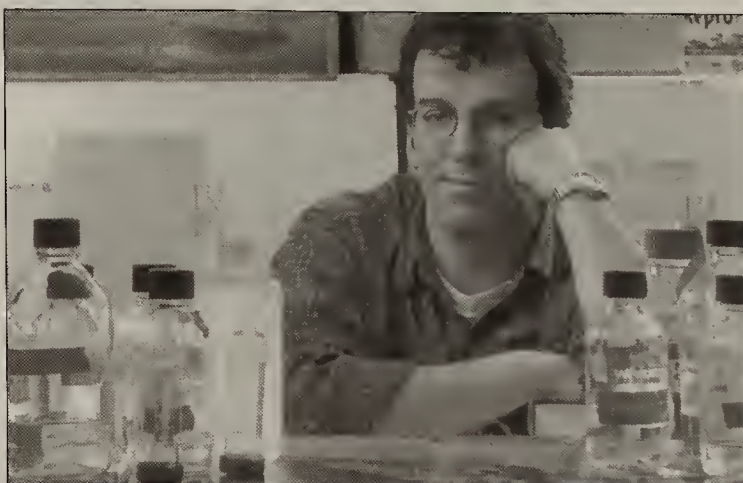
SCIENTISTS and doctors battling cancer might have an easier time if they didn't have to fight a moving target, says Prof. Marc Coppolino, Chemistry and Biochemistry.

"Cancer would be less difficult if all you had to identify was the location of the primary tumours," says the recently arrived researcher, who studies how cancer cells adhere to tissues or move around the body. "The problem is, they spread."

Good thing he's not one to shy away from problems. Far from it. That saying about turning problems into opportunities might have been expressly written for Coppolino, who brought to Guelph a 2000 John Charles Polanyi Award for Physiology and Medicine.

Explaining his choice of research fields, he says what drew him was the very thing that might have deterred a more faint-hearted would-be scientist: "Cancer seemed like such a difficult problem."

For an ambitious young researcher, studying cancer holds out another kind of attraction. "It may be intimately linked to the very nature of our existence," says Coppolino. Although confessing that sounds like a highfalutin notion even



Prof. Marc Coppolino first caught the research bug while working in a pharmacology lab.

PHOTO BY MARTIN SCHWALBE

to his ears, he believes the processes that lead to cancer "may be fundamental to our nature."

Speaking of the diversity of forms of cancer, he says: "It seems almost as if it's inevitable in organisms like us, with so many cell types, all of which are dependent on highly specific sys-

tems and reactions."

Through basic research, he aims to learn more not just about the development of cancer but also about normal cellular processes. "Future generations will look back and understand some cellular functions more clearly because we took the time and effort to understand these processes," he says.

While completing his PhD at the University of Toronto in 1998, Coppolino studied proteins involved in normal cellular processes and what happens to those processes as cancer develops. "One of my goals was to understand how cells adhere to parts of the body and how they move."

That's still his goal. Among the numerous scientists studying cancer, he says, his is one of a small group of laboratories worldwide that are

studying a subset of proteins involved in cancer cell migration.

Here at Guelph, several fellow biochemists — including Profs. Frances Sharom, Dev Mangroo and David Josephy — also study the role of various proteins in specific cellular processes.

Before joining U of G last year, Coppolino had taken a different research tack at Toronto's Hospital for Sick Children. Working under a Medical Research Council (MRC) fellowship, he studied how infection-causing bacteria invade the body, especially food-poisoning bugs such as salmonella.

If there's any link between that work and cancer, it lies in the enormity of the health problem. Quoting recent World Health Organization figures, Coppolino says

about one-quarter of all deaths worldwide are caused by various infectious diseases.

It was that work in host-pathogen interactions that earned him the Polanyi Prize, given to promising young researchers in Ontario. "I was stunned," he says of the \$15,000 prize. Such awards are "welcome recognition of efforts being taken to understand the world around us," he says.

Coppolino has also obtained grants from the Natural Sciences and Engineering Research Council and MRC's successor, the Canadian Institutes of Health Research, worth about \$100,000 a year for three years, and has applied to the Canada Foundation for Innovation for microscope funding.

Research had not been his first career choice. When he completed his undergraduate degree at the University of Waterloo in 1990, he was thinking about applying to medical school. He changed his mind after working as a technician in Merck Frosst's pharmacology department in Montreal.

"It was there that I got the bug for research," he says, describing his sense of excitement about finding answers to basic questions about how the body responds to infections. "It was all about problem solving, and it still is."

He says his decision to pursue graduate school rather than medical school surprised a few people. Referring to cutbacks in the health-care system, he says: "I perhaps saw the medical profession differently than others saw it." His father is a psychiatrist in Waterloo, and his brother is also a doctor.

BY ANDREW VOWLES

Women Honoured

Continued from page 1

Richards is being honoured for her excellence in training, supporting and encouraging girls and women in physical fitness and wellness. As a fitness instructor and trainer, she works with people ranging from elite athletes to those with special needs. In addition to the variety of programs offered by the Athletics Department, Richards coaches the dragon boat team of breast cancer survivors for Guelph-Wellington and works as a volunteer and fundraiser for organizations such as Big Sisters.

"Pat is selfless in her dedication to a range of worthy projects," says athletics director Richard Freeman. "The energy and foresight that she brings is an inspiration to all those who have the pleasure of working with her."

For Richards, "all my passions have to do with activity. The importance of activity in our lives is profound. It's good for kids, it's good for people who have physical challenges, it's good for everyone. It makes us smarter, happier, helps us have better self-esteem. Without it, the human body suffers. In my mind, wellness is about being active."

Otter, who graduated in 2001 with a B.Sc. in biomedical sciences, will be honoured as this year's Young Woman of Distinction.

While at U of G, she served as co-director of the Creative Encounters with Science summer camp for two years, helped run the summer camp Promoting Awareness — Girls

in Engineering Science and helped launch a summer computer science and technology camp called Tech-Quest.

"I was very shocked," she says of the award. "It's just an honour to be nominated. When you volunteer, you give yourself wholeheartedly and don't expect to get something like this."

Otter, who is now a medical representative for Johnson & Johnson, says her volunteerism, which includes involvement with the Big Sister Association of Guelph, stems from her love of children. "I'm very passionate about working with children. I very much enjoy science, and it can be quite fun and exciting for a child if presented the right way."

Prof. Alastair Summerlee, provost and vice-president (academic), says Otter "has a real drive to provide students with meaningful exposure to science in ways that she hopes will foster a genuine interest in the discipline. Her energy and commitment to the community are an inspiration."

Becker, who earned a BA and MA from Guelph's Department of Sociology and Anthropology in the early 1990s, will receive the award for education, training and development. Now a PhD candidate at McMaster University, Becker is an elder in the native community and is being recognized for her influence as an exceptional role model, especially for aboriginal women.

BY STACEY CURRY GUNN

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Bacteria in Spoiled Food Boost Poultry Growth

Polyamines accelerate development of digestive and intestinal tracts, causing more efficient uptake of other nutrients

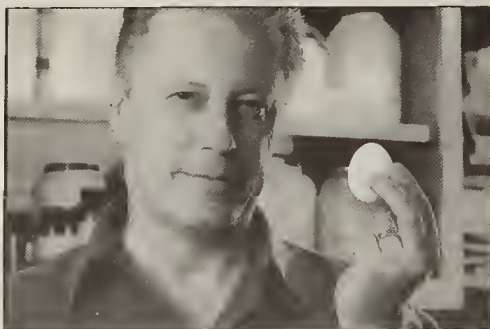
DON'T HEAD for the sour milk or mouldy bread quite yet, but there's news from U of G's animal science laboratories: some compounds in spoiled food promote growth.

Researchers are applying this principle to the poultry industry, helping chickens — and producers' pocketbooks — grow more quickly.

Prof. Trevor Smith of the Department of Animal and Poultry Science is examining the possibilities of using biogenic amines — biologically active compounds that are usually toxic to livestock — to promote growth in poultry.

In particular, he's looking at a class of amines called mammalian polyamines, the breakdown products of amino acids, which are commonly produced by bacteria in spoiled food.

"Biogenic amines can be harmful to animals — including humans —



Prof. Trevor Smith and his research team aim to help chickens — and producers' pocketbooks — grow more quickly. PHOTO BY MARTIN SCHWALBE

but some have the potential to promote normal growth," says Smith.

These polyamines work by accelerating the development of the digestive and intestinal tracts, causing more efficient uptake of other nutrients by an animal.

Research by Smith and his team, which includes graduate students Shankar Chowdhury, Sanjay Girdhar and Francisco Santoyo, have shown that several polyamines can help improve growth rates in chicks when introduced to their diet

at low levels. Small amounts of these compounds could be important in the current movement towards non-genetic modification of nutritional composition in poultry and other livestock.

The potential adverse effects of polyamine diets are still being tested, as are the effects of polyamines in chicken diets on the taste of the meat and eggs. Smith hypothesizes that low levels of these compounds may actually benefit humans.

"A certain amount of polyamines could promote the development of the gastrointestinal tract in humans. This could be a real benefit, especially to infants."

In addition, laying hens with a polyamine called putrescine in their diets produce eggs that may have higher hatchability rates, thicker shells and fewer abnormalities. Positive results in growth and development from polyamines have also

been recorded in turkey poults, shrimp and swine.

"We're looking at compounds once thought to be harmful and using them to promote efficiency in animal production," says Smith. "Plus, we can help minimize pollution by reducing nutrient waste."

The problem the researchers face now is finding a way to produce appropriate quantities of the required polyamine for livestock. Smith says it's too expensive to put purified putrescine into chicken diets and that a commercially available industrial feed-grade source is needed.

This research was sponsored by the Agricultural Adaptation Council, the Natural Sciences and Engineering Research Council, the Ontario Ministry of Agriculture, Food and Rural Affairs, and the Poultry Industry Council.

BY MURRAY TONG
SPARK PROGRAM

Left Behind in the Financial Field

Ridgetown researcher says support for Ontario farmers lags way behind that of competitors

ONTARIO is the most agriculturally diverse and productive province in Canada, but support for grain and oilseed farmers here lags way behind that of our neighbours and competitors, says Ridgetown College professor Brian Doidge.

Government support for those who grow Ontario's largest crops — corn, soybeans and wheat — just doesn't measure up to that in the United States and the rest of Canada, he says.

"The political will to provide sup-

port for agriculture in this country is lacking compared with our major competitors, and it's most apparent for Ontario grain and oilseed producers."

Doidge says total support to agriculture in the United States declined 28.3 per cent between 1986 and 2000 and represented 1.05 per cent of gross domestic product (GDP) in 2000. By comparison, total support to agriculture in Canada declined by 51.3 per cent over the same period and represented only 0.78 per cent of GDP in this country.

He says that Organization for Economic Co-operation and Development (OECD) data for 1998 show that the average farmer received \$7,500 US in support in Canada. That compares with \$19,400 in the States and \$19,700 in the European Union. OECD data also show that by 2000, support per farmer in the United States had surpassed that of the EU and blossomed to \$20,803.

A discrepancy is also seen among the provinces. For example, provincial funding for income support and stabilization was 2.35 times greater

in Quebec than in Ontario from 1997 to 2000, despite Quebec's provincial agricultural GDP being only two-thirds of Ontario's. Quebec also has only about two-thirds the number of farmers as Ontario.

To compare income support programs in the United States, Quebec and Ontario, Doidge set up a theoretical 500-acre grain and oilseed farm (200 acres of soybeans, 200 acres of corn and 100 acres of winter wheat). He "operated" the farm from 1996 until 2000 under the rules that govern support payments in the United States, Quebec and Ontario. He looked at provincial annual average yields and prices and took into consideration requirements of various farmer support systems such as the 1990 and 1996 U.S. farm bills and Ontario and Quebec's income support programs.

Results indicated that income support from Ontario programs was almost equal to that of the United States and Quebec in 1996. But emergency payments and new programs in the States sharply increased government support starting in 1997. In fact, in the three years 1997 to 2000, direct government payments to U.S. growers tripled, and 95 per cent of those payments went to U.S. grain and oilseed farmers.

Doidge found that U.S. farmers were receiving 2.8 times more support per acre than Ontario farmers were by 1999 (because of the Quebec program's design, it hadn't fallen so far behind).

This discrepancy in support has created an uneven playing field in two ways, he says. Not only does U.S. agricultural policy (and U.S. subsidies in particular) play a huge role in determining price on this side of the border, but Ontario producers also have to compete directly against

heavily subsidized imports of U.S. corn and soybeans.

In 2000/2001, for example, imports of subsidized U.S. corn skyrocketed to a record 70 million bushels, double the previous record and 2.5 times the volume of imports in 1999/2000.

This is compounded by the inequities in financial support in Canada, says Doidge. In 1999, the federal government provided \$240 million in emergency assistance to Manitoba and Saskatchewan. Additional funding was added by the provinces for a total of \$400 million. The money was granted because of the "farm income crisis" in those two provinces. But Doidge says no emergency assistance was provided to Ontario then, despite data showing the situation was bad here as well. This has created disproportionate income funnelling within Canada, he says.

He has presented these findings to producer groups, government officials and policy advisers across the province, supporting Ontario producers' insistence that economic support be increased to once again be equivalent to that of the United States and other Canadian provinces.

"Commodity groups have become increasingly vocal that the disparity in economic support must be eliminated and that government funding from both Ottawa and Toronto to Ontario grains and oilseeds must be sharply increased," says Doidge. "They also want long-term safety nets to be in place for crops grown after those harvested in 2000 when the current safety net agreement expired."

This research was sponsored by the Ontario Corn Producers' Association.

BY JUHIE BHATIA
SPARK PROGRAM

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Four-bedroom home on half-acre lot, 2,700 square feet, three baths, family room with wood fireplace, finished rec room, double garage, two minutes north of Guelph, 821-1493.

Sharp FO-760 fax machine, plain paper, seldom used, Grace, Ext. 3901 or 766-0473 evenings.

Older desk, can be seen at McNally House, 577 Gordon St., best offer, Toni, Ext. 3343, or Sylvia, Ext. 3463.

1998 Ford Windstar GL, green, automatic, fully loaded, air, keyless, 89,000 kilometres, 821-3707.

Computer desk, red mahogany, 38 by 22 by 32 inches; two Reese trailer hitches for Ford or Mazda pickup, Class II, 3,500 lbs., Class III, 7,500 lbs., 824-3800.

Six-foot bed with drawers, mattress, Jesse, 767-0741.

Large dog cage: 26 x 30 x 42 inches, folds flat, used for only two months, Ext. 2325 or 763-4539 after 6 p.m.

Three-bedroom house in south end, skylights, mature garden with pond, 822-2248 or visit the Web site www.kw.igs.net/~grchapman/.

FOR RENT

Bachelor apartment, laundry, 10 minutes to campus, available May 1, \$450 a month inclusive, Chantelle, 821-6496 or chuhb4@yahoo.com.

Three-bedroom apartment, hardwood floors, large kitchen with balcony, garage, laundry, non-smoker, no pets, \$1,200 a month inclusive, Jamie, 847-867-9238.

Furnished one-bedroom condominium, suitable for professional, washer/dryer, underground parking non-smoker, no pets, available June 1, \$850 a month inclusive, 763-6954.

One bedroom in three-bedroom apartment, five-minute walk to

campus, parking, laundry, pets welcome, \$425 a month inclusive, one-year lease beginning May 1, 829-3373 or dim@uoguelph.ca.

Two-bedroom lower walkout apartment with office, suitable for quiet professional or couple, central air, laundry, parking, non-smokers, no pets, available June 1, \$875 a month inclusive, 362-9289 or apartment@rogers.com.

Furnished two-bedroom basement apartment, laundry, parking negotiable, on bus route, close to Stone Road Mall, non-smokers, no pets, available May 1, \$900 a month inclusive, Barb or Tyson, 829-4152.

Large room to sublet, kitchen, bath, parking, five-minute walk to Stone Road Mall, non-smoker, available May 1 to Aug. 31, \$325 a month plus utilities, Steve, Ext. 76471, 705-745-0333 or sarmitag@uoguelph.ca.

Two rooms in south-end home for grad students or young professionals, parking, laundry, central air, on bus route, five-minute drive to campus, non-smokers, no pets, available July 1, \$400 a month per room plus shared utilities, 763-1678.

Furnished three-bedroom house downtown, close to bus stop, 25-minute walk to campus, living room with fireplace, washer/dryer, garage, available August 2002 to August 2003, Eileen, Ext. 2574 grand@psy.uoguelph.ca.

Two bedrooms in four-bedroom home, Cole Road, close to bus stop and mall, available May 1 to Aug. 31, \$225 a month plus utilities, Tracey or Lora, 766-1625 or tkarges@uoguelph.ca.

Three-bedroom, two-storey shared home, parking, suitable for single professional or couple with no children, \$800 a month, 826-7400.

Two-bedroom cottage near Sauble Beach, dishwasher, non-smokers, no pets, \$500 a week, 763-1236 or bardwell@ovc.uoguelph.ca.

Two-bedroom apartment, Hanlon/Stone Road area, available May 3, \$1,000 a month plus utilities, Ext. 6441, 837-8719 or KRJ@physics.uoguelph.ca.

Furnished three-bedroom house in south end, central air, available July 1, references required, no pets, \$1,500 a month plus utilities, 821-3707.

Two-bedroom cottage on Georgian Bay island, great swimming, canoeing, overlooking Killbear Provincial Park, Ken, 822-7705.

Three-bedroom townhouse to sublet, three baths, close to campus, available immediately until Dec. 31, \$1,189 a month inclusive, Ext. 3176 mornings or 821-3092.

Four-bedroom home for professional couple or small family, south end, private yard, central vac and air, available June 30 to Aug. 30, Carol, 823-1857 or 362-1857.

WANTED

Furnished three-bedroom house or townhouse for visiting faculty member with dog from August 2002 to August 2003, willing to provide pet deposit, 709-753-8665 after 5 p.m. or chet@mun.ca.

One- or two-bedroom furnished or unfurnished apartment within 30-minute walk from campus for mature male professor, non-smoker, no pets, parking required, 835-3975.

Dehumidifier, Barb, Ext. 2043 or 821-7069.

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ARBORETUM

The final performance of the Theatre in the Trees production *Funny Valentine* is April 27. Doors open at 6 p.m. Cost is \$49. For tickets, call Ext. 4110.

The Arboretum Auxiliary's Sunday afternoon walks continue April 28 with "Frogs and Toads" and May 5 with "Pond Study." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Richard Tofflemire leads a workshop on bird sounds May 22 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment deadline is May 8.

Naturalist Chris Earley presents a "Sparrow Workshop: Those Little Brown Jobs" May 29 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment are required by May 15.

ART CENTRE

The Macdonald Stewart Art Centre hosts exhibition receptions for "Derek Sullivan: Work-Shopping" April 24 at 4 p.m. and for "Sakis: Exit" May 2 at 4 p.m.

NOTICES

The U of G Library will operate on a reduced schedule and with limited services during the between-semester period. From April 27 to May 5, the McLaughlin Library will be open from 8:30 a.m. to 7 p.m. Monday to Friday and noon to 7 p.m. on weekends. The OVC Learning Commons will be open from 8:30 a.m. to 5 p.m. Monday to Friday and closed on weekends. During the summer semester, McLaughlin will be open 8:30 a.m. to 10 p.m. Monday to Friday and noon to 10 p.m. on weekends and holidays. OVC hours

are 8:30 a.m. to 10 p.m. Monday to Thursday, 8:30 a.m. to 5 p.m. Fridays, noon to 5 p.m. on weekends and closed on holidays.

The Central Student Association's Human Rights Office is sponsoring a conference for gay, lesbian, bisexual, transsexual/gendered and two-spirited youth from across Ontario May 10 to 12. For more information, visit the Web site www.uoguelph.ca/~rainbow or call co-ordinator Andria Green at Ext. 2629, fax to 763-9603 or send e-mail to rainbowyouth@canoe.ca.

The Ministry of Agriculture, Food and Rural Affairs invites research proposals for the third round of funding through the Food Safety Research Program. Priority areas are: risk management and control, development/validation of testing methods, and data to support risk assessments. Application deadline is June 3. For more information, contact Vicky Grahovac at 826-4198 or vicky.grahovac@omafra.gov.on.ca.

SEMINAR

The Department of Physics presents Sergey Kravchenko of Northwestern University in Boston discussing "Metal-Insulator Transition in Two Dimensions" April 26 at 1:30 p.m. in MacNaughton 222.

THESIS DEFENCES

The final examination of MFA candidate Derek Sullivan, Fine Art and Music, is April 24 at 2 p.m. at the Macdonald Stewart Art Centre. The exhibition is titled "Work-Shopping." The adviser is Prof. James Carl.

The final examination of Michelle Borsenko, an M.Sc. candidate in the Department of Animal and

Poultry Science, is April 25 at 9 a.m. in Animal Science and Nutrition 002. The thesis is "Antibiotics and Organics as Modulators of Whole-Body and Visceral Organ Growth in the Early-Weaned Piglet." The adviser is Prof. Ming Fan.

The final examination of PhD candidate Jonathan Martin, Environmental Biology, is April 25 at 9 a.m. in Graham Hall 3301. The thesis is "Environmental (per-) Halogenated Acids: Detection, Distribution, Sources and Bioaccumulation." The advisers are Prof. Keith Solomon and Derek Muir.

The final examination of PhD candidate Brenda Dyack, Agricultural Economics and Business, is April 25 at 11 a.m. in Day Hall 123. The thesis is "The Impact of Health Information on Wine Demand: The Case of Ontario." The adviser is Prof. Ellen Goddard.

The final examination of Todd Rideout, an M.Sc. candidate in the Department of Animal and Poultry Science, is April 26 at 9 a.m. in Animal Science and Nutrition 70. The thesis is "Chicory Inulin in Modulation of Intestinal Fermentation and Nutrient Utilization in Studies With Pigs." The adviser is Prof. Ming Fan.

The final examination of PhD candidate Peter Sullivan, Animal and Poultry Science, is April 29 at 9 a.m. in Animal Science and Nutrition 141. The thesis is "Genetic Evaluation Strategies for Multiple Traits and Countries." The adviser is Prof. Jim Wilton.

The final examination of Robert Blenkinsop, a PhD candidate in the Department of Food Science, is April 30 at 2 p.m. in Food Science 241. The thesis is "The Effect of Temperature in Cold-Stored Potato Tubers in

Relation to Chip Processing Quality." The advisers are Profs. Rickey Yada and Alejandro Marangoni.

The final examination of MFA candidate Sakis Mitsoulis, Fine Art and Music, is May 2 at 2 p.m. at the Macdonald Stewart Art Centre. The exhibition is titled "Exit." The adviser is Prof. Monica Tap.

The final examination of Colin Darling, an M.Sc. candidate in the Department of Zoology, is May 3 at 9 a.m. in Axelrod 265A. The thesis is "Lead Shot Contamination in Soils and Lead Bioaccumulation in Earthworms." The adviser is Prof. Vernon Thomas.

COMMUNITY EVENTS

The Heart and Stroke Foundation is sponsoring a Heart Smart women's health information session on nutrition and lifestyle management April 30 at 6:30 p.m. at the Cutten Club. Nutritionist and lifestyle consultant Linda Barton will discuss "Eating Right for You, Right Now." Tickets are \$5 and can be reserved by calling 837-4858.

The Suzuki String School of Guelph presents its annual spring concert May 5 at 3 p.m. at the River Run Centre. Admission is free.

Guelph Little Theater presents *Marion Bridge* by Daniel MacIvor May 2 to 4, 9 to 11 and 16 to 18 at 8 p.m., with a 2 p.m. matinee May 12. For tickets, call 821-0270.

Guelph and Wellington County Master Gardeners will hold a plant sale May 11 from 8:30 to 11:30 a.m. at the Guelph Turfgrass Institute.

The Guelph Youth Music Centre will host a fund-raising concert fea-

turing the Suzuki String School of Guelph and the Suzuki piano studio of Gail Lange April 27 at 7:30 p.m. The program will include works by Bach and Vivaldi. Proceeds will support the music centre's debt reduction campaign. For ticket information, call 837-1119.

John McCrae House will host a Second World War re-creation and poppy push fundraiser May 4 from 9 a.m. to 4 p.m.

The annual Guelph Community Arts Tour runs May 3 to 5, with more than 30 local artists and craftspeople opening their studios to the public. Hours are 7 to 9 p.m. Friday and 11 a.m. to 5 p.m. Saturday and Sunday. Brochures are available at various locations, including Wyndham Art, Salon de Tea and Dough Boyz.

The Guelph International Resource Centre (GIRC) is again selling rain-barrels for water conservation. Orders must be in by May 1, with pickup May 25. Orders will be taken from 10 a.m. to 6 p.m. Monday to Friday at the GIRC office, 5 Douglas St. For more details, call 822-3110, send e-mail to girc@web.ca or visit the Web site www.girc.org.

The Wellington Winds and Eric Nagler perform May 4 at 7:30 p.m. at Kitchener's Grandview Baptist Church and May 5 at 3 p.m. at Elmira's Woodside Bible Fellowship. Tickets are available at the door.

A free information session on the Canadian Mortgage and Housing Corporation's residential rehabilitation assistance program for persons with disabilities will be held May 1 at 1 p.m. at the Guelph Community Health Centre, 176 Wyndham St. For information, contact Liz Maxwell at 836-1812 or lizm@gspd.org.

Casino Design May Play Role in Problem Gambling

Study will explore impact of individual temperament and environment on gambling behaviour

WHY IS IT that when some people get inside a gambling venue such as a casino, they do things like pump loonies into a slot machine that has already robbed them of a month's pay?

It may have a lot to do with their individual temperaments and how the casino is designed, say U of G consumer studies professors Karen Finlay and Vinay Kanetkar and psychology professor Harvey Marmurek. The three are studying the role personality and environment play in problem gambling.

"Casinos are often designed to make people feel submissive and enhance emotional arousal," says Finlay, the principal investigator of the study, which recently received \$126,000 in support from the Ontario Problem Gambling Centre. Elements that contribute to such

feelings include identification checks and security officers, asymmetrical colours and noise levels, she says.

"Temporal perception is also altered by not having any windows or clocks in gambling venues, so that individuals lose track of time and reality," says Finlay. "We will be examining elements such as these to see what emotions they elicit in people and how they affect gamblers based on their individual temperaments and inherently different predispositions to respond to environments in different ways."

For example, it may be that design elements that are more dominating will have a greater potential to make people who seek submissive environments develop problem gambling tendencies. In contrast, people who prefer a sense of domination may be less vulnerable to

problem gambling in such settings, she says.

The study will focus on collecting information on specific aspects of gambling environments that may influence the emotions of gamblers. The researchers will visit casinos and gambling facilities in Ontario — Orillia, Barrie, Toronto, Brantford, Campbellville, Niagara Falls, Flamborough and Ottawa — as well as in Western Canada and in Reno and Las Vegas, Nevada.

"I am interested in finding out whether there is anything in these environments that keeps problem gamblers thinking they have a chance of winning long past the time they should have realized the odds are against them," says Marmurek, whose expertise is in human cognition and control.

The researchers will also inter-

view architects experienced in casino design, which was the appeal for Kanetkar. "My background is in architecture, and we know from anecdotal evidence that space affects what we do," he says. "But we don't know for sure how we process the sequence of events that lead us to do different things. There is very little literature that documents how behaviour is affected by physical space and surroundings."

The goal is to get input from architects on venue design and on the range of physical and emotional scales that are developed when building such a facility. The researchers will eventually produce three-dimensional simulations of the interiors of a variety of gambling venues. These will be used in studies to predict human response and behaviour.

The researchers hope their work will eventually be used in public education, to promote awareness among policy-makers and in clinical treatment plans for problem gamblers. This is also the goal of the Ontario Problem Gambling Research Centre, which has a mandate to invest in studies that will lead to improved understanding of problem gambling. The provincial agency is funded by two per cent of the revenues from slot machines at charity casinos and racetracks.

Finlay adds that they also hope to influence design considerations of gambling environments.

"It won't happen overnight, but we're hoping to eventually change the design of casinos so they're less likely to induce problem behaviour."

BY LORI BONA HUNT



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Fellowship a Coup for PhD Candidate

Award will support research on crop biodiversity in India

KIRIT PATEL, a rural studies PhD candidate in the Department of Sociology and Anthropology, is one of only two researchers worldwide to receive a 2002 Vavilov-Frankel Fellowship from the International Plant Genetic Resources Institute based in Rome.

Launched in 1989 by the Consultative Group on International Agricultural Research to commemorate the contributions of academician Nikolai Ivanovich Vavilov and Sir Otto Frankel to plant science and global food security, the fellowships aim to encourage the conservation and use of plant genetic resources. They are awarded to outstanding young researchers to carry out innovative work at an advanced research institute outside their own country for up to a year.

Patel, a native of Gujarat province in India, will use the \$24,000 US fellowship for his research on "Breaking the Nexus Between Poverty and Agrobiodiversity: Institutional and Policy Changes for Supporting Farmer-Led Participatory Crop Improvement and Conservation." A PhD student at Guelph since fall 1999, he will take up the

fellowship at the end of the year.

Patel's supervisor, Prof. Sally Humphries, says the fellowship is a major coup for both Patel and the University.

"Within the world of conservation, it is an extremely prestigious award for young scholars, maybe the most prestigious," she says. "And it almost always goes to biological scientists. So to have it go to a social science student at Guelph is quite a feat."

Before coming to Guelph, Patel earned a master's degree in agricultural sciences from Gujarat Agricultural University in India in 1991, then began working on a joint project with the Society for Research and Initiatives for Sustainable Technology and Institutions and the Indian Institute of Management in Ahmedabad, an internationally known management school. The project focused on the creativity of small farmers and other grassroots innovators, examining how they evolve and how they develop solutions to day-to-day problems.

"Many institutions and projects look at these farmers as a source of

See **AWARD** on page 10

Plants That Get Along With Their Dirt Do Best

Botanist's findings reported in May issue of Nature

SURVIVAL OF THE FITTEST has long been believed to be the key to success in nature. But new research by Prof. John Klironomos, Botany, reveals that in the plant world, longevity is determined by how well a species competes with its own soil and not other flora. And the longer a plant has been around, the tougher the battle.

"It has always been assumed that plants were fighting it out for space and other resources in the wild," says Klironomos, whose findings appeared in the May 2 issue of *Nature*. "But it turns out that plants may not even be aware of what other plants are growing up next to them. The battle for survival is really between the plant and its soil pathogens."

He conducted a series of con-

trolled and field experiments involving plants that are native and foreign to Canada. He grew them for equal durations in pots of "home" and "foreign" soil, monitoring their growth and interactions with soil pathogens. He then planted the same species in natural meadows in the Arboretum.

What he found is that for a plant, there is no such thing as a "home court advantage."

"Many native species have trouble growing in 'home soil' because the species-specific pathogens have had so much time to accumulate," says Klironomos.

"The plants that are flourishing — both in the experiments and in the wild — are often the invaders.

See **PLANT** on page 10



This Bug's for You

Could this giant cockroach tell you apart from someone else? Not likely, you say? Student researcher Emily Heslop begs to differ.

PHOTO BY HANK DAVIS

Watch Where You Step . . .

Researchers find insect can differentiate one person from another

EMILY HESLOP is not a "bug person." Creepy crawlers with long antennae and alien-looking undersides make the undergraduate psychology student's skin crawl as much as the next person's. But twice a day for more than three months, she would pick up giant hissing cockroaches and stroke their shells while they walked over her hand.

It wasn't an exercise in self-control or phobia reduction. Heslop, along with Prof. Hank Davis, Psychology, was conducting a first-ever study on whether the giant insects can tell humans apart. Their research subjects were 13 cockroaches from Madagascar, selected from a colony of several hundred that are housed in U of G's Bovey Building. The insects, which can grow to be several inches in length, hiss and lurch their bodies upwards when they're distressed.

"They were perfect for the study," Davis says, explaining that for this type of research, it's imperative that the subjects have some type of distinguishing behaviour that lets researchers know whether they're starting to trust them. "What could be better than a cockroach that hisses when it feels threatened? It was a great opportunity for us."

But sometimes, working with even the most ideal research subjects requires making a few mental adjustments.

"I'm not a bug person either," says Davis. "The first couple of times Emily and I went out to see them, I think we were holding each other up. The cockroaches live inside egg cartons in the colony, and you'd turn one over and there would be 15 or so of them clinging to the inside, and you'd have to take a deep breath. We definitely both wondered if we were going to get through it."

Cockroaches were randomly selected for the study and isolated in plastic containers. The only contact the bugs, which are accustomed to communal living, had with another living creature was twice-daily visits from Heslop. She would stroke their shells and murmur kind words during her visits.

"The first few times I picked them up, I had to get all the heebie-jeebies out," she says. "I would remind myself that they don't bite, that they couldn't hurt me, and I just had to get used to them crawling over my skin."

Heslop wasn't the only one who went through an acclimatization process; it appears that her six-legged research subjects grew accustomed to her as well. Preliminary findings show that seven of the 13 cockroaches became habituated to humans, meaning they no longer hissed when handled by people. But even more interesting is that four of the cockroaches became habituated

only to Heslop. During critical tests, the four cockroaches would hiss and lurch their bodies when handled by another researcher, but cease that behaviour when picked up by Heslop.

"It is this less frequent outcome that we are most interested in," says Davis, an animal behaviour psychologist. "In these cases, the cockroaches seem to be saying: 'I'm not going to habituate to humans in general. I'm going to be selective about who can handle me, and in this case, her name is Emily.'"

Davis adds that it's unclear what made the cockroaches distinguish Heslop from other humans.

"It could be pheromones (chemical signals) or the brand of soap she uses, I don't know," he says. "But it's an early indication that invertebrates, which are often considered less complex and less intelligent than vertebrates, can indeed distinguish one human from another."

Cockroaches are the 12th species that Davis has studied to see if they can differentiate between humans. The research, which he and Heslop plan to submit for publication, has both pure science and practical applications. The fact that animals and even bugs can tell humans apart may affect the results of animal studies and have considerable implications for research, he says.

See **INSECT** on page 10

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New Human Rights Policy, Procedures Document Represents Major Advance

Strong community involvement an integral part of developing, applying policy

U OF G's new human rights policy and procedures document is "a tremendous achievement" for the University, says Patrick Case, director of the Human Rights and Equity Office. "What we have achieved is a balance between two key values — academic freedom and freedom from discrimination."

Approved by Board of Governors last month, the document represents a major advance over its predecessor, the 1993 sexual and gender harassment policy, says Case. For one, the new policy addresses all forms of discrimination covered under the Human Rights Code — including disability, race, gender, ethnicity and sexual orientation — whereas the previous policy had a much narrower focus.

"That's really important," he says. "The University can take pride in its willingness to grapple with the full range of human rights issues from the simplest to the most complex."

The policy and accompanying procedures (for the resolution of human rights discrimination and harassment concerns, disputes and complaints) also spell out the legal obligations U of G has in resolving human rights concerns and offer clear guidelines for people in supervisory positions on how to resolve human rights matters at an informal level. And they provide protection from reprisals and bad-faith allegations for both complainants and respondents involved in a human rights matter.

The policy, coupled with the ongoing educational efforts of the Human Rights and Equity Office and the dozens of other people involved with equity work on campus, is aimed at "producing a diverse and supportive environment for students to live and learn in and for employees to work in," he says.

Development of the policy and procedures was a community-wide effort that included input from a broadly consultative working group made up of students, faculty and staff, as well as from several open community meetings.

That strong community involvement will continue with the creation of a Human Rights Advisory Group, as mandated by the policy, says Case. With a membership drawn from across the University, the group will advise the Human Rights and Equity Office on the application of the policy, will gather statistics and will oversee the selection of community members to serve as resource people for individuals involved in a human rights issue.

"This aspect of the process is something to be proud of," says Case. "It puts the responsibility for addressing human rights matters out in the community where it belongs. This is a very healthy thing. What it's saying to people is that the maintenance of a safe and caring environment is everyone's responsibility and that the welfare of the person living or working next to you really is your business."

Another significant aspect of the new policy and procedures document is that it calls for periodic review of how it's working, he says.

"This will give people an opportunity to look back and see what works and what doesn't. At no time should people feel that this policy is a closed door. Law and practice in this area are constantly evolving and so, too, is the culture in which these policies work."

People also shouldn't think that this policy represents the sum total of the University's efforts in the area of human rights, says Case. "The policy is only one piece of it."

He points to the efforts of Residence Life staff during orientation and throughout the school year to bring attention to human rights is-

sues, the work of Security Services in the area of campus safety, the ongoing human rights discussion group drawn from student leaders across campus and the human rights office of the Central Student Association as examples of the University's ongoing commitment to human rights.

"In addition, there's rarely a time when human rights and equity issues don't figure as part of the discussions at senior-level management meetings. They're almost always on the agenda in some form."

With the new policy and procedures in place, the Human Rights and Equity Office now plans to hold sessions across the University to orient employees to the policy and to discuss human rights issues in general.

"The University wants to provide an environment where people are free to express their views and concerns," says president Mordechai Rozanski. "Discrimination and harassment are at odds with the underlying values of our democratic society and, simultaneously, in conflict with the University's academic values, which focus on the pursuit of knowledge and truth through an open and reasoned exchange of ideas."

Rozanski commends everyone who was involved in developing the new human rights policy and procedures and thanks Case, provost Alastair Summerlee and the various governance bodies that participated in the process.

The policy and procedures can be viewed on the Web at www.uoguelph.ca/hre/policies.htm.

BY BARBARA CHANCE

Vineland Honours Gift of Sakura Trees

THE DEPARTMENT of Plant Agriculture's Vineland campus will host a ceremonial tree planting May 28 at noon to acknowledge a gift of Sakura trees to U of G from the consul general of Japan.

The Sakura is a Japanese ornamental flowering cherry blossom tree that is Japan's most beloved plant and most celebrated flower. In honour of the gift, a Sakura "Friendship" Garden has been planted on

the Vineland campus.

Guests at the ceremony will include chancellor Lincoln Alexander; OAC dean Craig Pearson; Takashi Koezuka, consul general of Japan in Toronto; Antoinette Marwitz, U.S. consul general; Prof. David Hume, interim associate vice-president (research, agri-food and partnerships); and Prof. Clarence Swanton, chair of the Department of Plant Agriculture.

Correction

IN THE APRIL 24 issue of @Guelph, Prof. Iain Campbell, Physics, was incorrectly identified as the acting chair of the Department of Physics.

<p>Editor Barbara Chance b.chance@exec.uoguelph.ca</p> <p>Design Peter Enneson</p> <p>Layout Linda Graham l.graham@exec.uoguelph.ca</p> <p>Advertising Brian Downey b.downey@exec.uoguelph.ca</p> <p>Director Chuck Cunningham c.cunningham@exec.uoguelph.ca</p>	<p>@Guelph is published every two weeks by Communications and Public Affairs, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1.</p> <p>Inquiries: 519-824-4120; Editorial: Ext. 6580; Distribution: Ext. 8707; Advertising: Ext. 6665; www.uoguelph.ca/adguide Classifieds: Ext. 6581; Fax: 519-824-7962; Web site: www.uoguelph.ca/atguelph</p>	<p>Articles may be reprinted with credit to @Guelph</p> <p>Subscriptions \$22 (includes GST); \$30 outside Canada ISSN 0836-6478 © 1998 Printed on recycled paper</p> <p>UNIVERSITY GUELPH</p>
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CONFERENCE TO FOCUS ON LEADERSHIP

U of G will host the 2002 Recognition of Leadership Conference July 11 to 13. The conference is designed for mid-career professionals in the private, public and not-for-profit sectors who are looking to advance both personally and professionally. Conference chair is Patrick Boyer, an adjunct political science professor and a former parliamentarian, attorney and journalist. Guest speakers include Ontario Chief Justice Roy McMurtry. For more information, call the Office of Open Learning at 767-5000 or check out the Web site www.guelphleadership.com/conference.

ROCK DEDICATED MAY 1

Members of the University community marked May Day with workshops on labour history and political action, as well as speeches by representatives of the various unions and organizations on campus. In addition, a commemorative rock in front of Day Hall was dedicated to "employees who have been injured or fatally injured" while working at the University.

MAC CIRCLE TO BE CLOSED

Vehicle access into the turning circle in front of Macdonald Hall will be permanently blocked within the next two months. Chris Pickard, director of planning, engineering and construction, says this move is consistent with the University's campus master plan, but is primarily due to the need to keep heavy trucks off the circle because of the deterioration of the tunnels below. There is no safety concern for pedestrians on the circle, he adds.

MEMORIAL SERVICE PLANNED

A "Celebration of Life" service will be held June 1 at 1 p.m. at the Arboretum for Richard Gurure, a 1997 PhD graduate of the Department of Animal and Poultry Science who died recently in his home country of Zimbabwe. The memorial service will include the dedication of a silver maple tree and memorial plaque. Anyone wishing to donate to the tree memorial fund should contact Prof. Rich Moccia at Ext. 6216 or rmoccia@uoguelph.ca.

Household Drugs May Be Affecting Canada's Water

Study explores impact of pharmaceuticals on the environment

WALKERTON, ONT., and North Battleford, Sask., have given the topic of clean water a chilling new significance in Canada. In that light, U of G researchers are taking pre-emptive measures to assess water safety by examining an as-yet unexplored potential pollutant: household drugs.

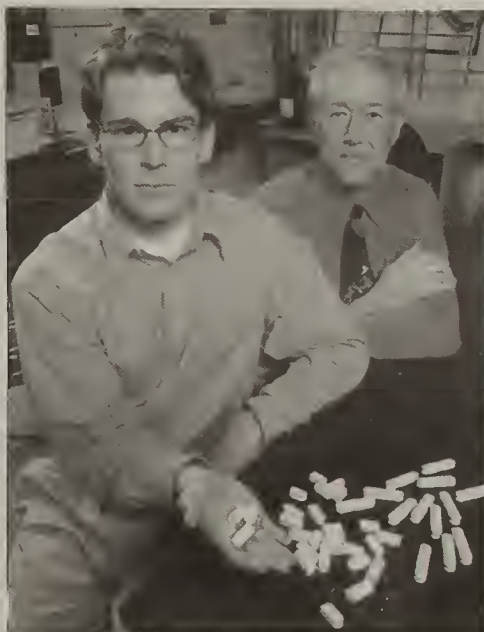
Prof. Keith Solomon and research associate Sean Richards of the Centre for Toxicology are leading a study to determine the effects of commonly used pharmaceuticals being released into lakes and streams through treated sewage effluent and raw sewage.

"The effects of pharmaceuticals on the environment have not been explored," says Solomon. "They've been extensively tested in mammals, but their potential effects in the environment are largely unknown."

Ecological testing programs for pharmaceuticals released in sewage effluent have never been established in North America, even though Canada alone dumps more than a trillion litres of virtually untreated sewage into surface water every year. A brief survey of sewage treatment plant effluent in 14 Canadian cities, supported by the Canadian Network of Toxicology Centres (CNTC), has revealed the presence of numerous analgesic and lipid-regulating drugs commonly used by humans.

To conduct this research, CNTC's risk assessment methodologies team set up a series of experimental ponds containing organisms representing different trophic levels in the natural environment. They added widely prescribed pharmaceuticals to these experimental ecosystems to test their effects on the communities and organisms within.

Richards and Solomon selected widely used, commercially available drugs that are used internationally, including one anti-inflammatory analgesic, a fluoroquinolone antibiotic and a selective serotonin reuptake inhibitor. "We wanted to get a broad overview of different types of pharmaceuticals in the environment, so we looked at as many different classes of pharmaceuticals as possible," says Richards.



Researchers Sean Richards, left, and Prof. Keith Solomon are studying the impact of drugs on surface water. PHOTO BY MARTIN SCHWALBE

New technology in analytical methods, such as liquid chromatography tandem mass spectrometry, have made it possible to analyse treated water and sewage effluent for pharmaceuticals, which are generally water-soluble and usually present in relatively low concentrations.

Drugs designed for human use are tested for possible synergistic effects when used in combination with other commonly used drugs. But these compounds, alone or in combination with other substances, can still cause problems in the environment, where there is no control over what substances will combine. No case studies exist for possible effects of these combinations.

This is especially true in aquatic ecosystems, a highly mobile medium capable of carrying substances over long distances.

"Releases into water can have long-range effects," says Richards. "Water tends to be the universal sink

for many substances used by humans."

With an aging population and increased pharmaceutical use in western society, Richards anticipates that the amount of drugs in surface water will only increase.

"We are being pre-emptive in the collection of information, to see if it's causing a problem we aren't aware of. Being proactive is better than being reactive."

Other researchers involved in this project are Prof. Scott Mabury of the University of Toronto, Prof. Chris Metcalfe of Trent University and, at Guelph, Prof. Paul Sibley, Environmental Biology, graduate student David Johnson and undergraduates Richard Brain and Christian Wilson. This research was sponsored by the CNTC and Canada's Research-Based Pharmaceutical Companies R&D.

BY MURRAY TONG
SPARK PROGRAM

PEOPLE

GRAD STUDENT TO PLAY FOR CANADA IN WORLD CUP

Colette McAuley, a graduate student in the Department of Plant Agriculture, will travel to Barcelona, Spain, next week as a member of the Canadian Women's Rugby Team to play in the World Cup. The games run May 13 to 26. Canada is seeded fourth and will open against No. 13 Ireland May 13.

VET NAMED EDITOR

Prof. Jeff Caswell, Pathobiology, has been named the feature editor of *Pathologists' Corner*, a column published in the *Canadian Veterinary Journal*.

COLUMNIST WINS AWARD

Owen Roberts, director of research communications in the Office of Research, captured third place in the Columnist of the Year/Bell Canada Award from the Ontario Community Newspapers Association for a column that appears regularly in the *Woolwich Observer*.

SHUTE VISITS NEW ZEALAND

Prof. Jim Shute, director of the Centre for International Programs, served as a resource person and reviewer for an internationalization benchmarking and good practices workshop at Otago University in New Zealand convened by the Commonwealth Universities Study Abroad Consortium. While in New Zealand, Shute initiated a new student exchange agreement with Wai-kato University.

STUDENTS HONOURED IN U.S.

Two students in the Department of Human Biology and Nutritional Sciences won awards at the Federation of American Societies for Experimental Biology meeting last month in New Orleans. PhD student Marina Mourtzakis received a Research Award for Clinical Investigation from the American Physiology Society's endocrinology and metabolism section. Her abstract was titled "Pyruvate Dehydrogenase Active Form and Carbohydrate Utilization During Prolonged Exercise. Her adviser is Prof. Terry Graham. Graduating B.Sc. student Michelle Daniels won the American Society for Biochemistry and Molecular Biology's undergraduate poster competition.

Athletes to Promote Healthy Sport at S@GE

Fourth-annual science camp expects to draw more than 1,000 students

GRADES 7 AND 8 students attending this year's S@GE, Guelph's popular science camp, will gain some first-hand knowledge about the science of sport from two renowned Canadian athletes.

Runner Rachel Campbell, who competed in the 4x400 relay for Canada in the Montreal Olympics, and boxing champion Sean O'Meara will take part in camp modules and talk to students about setting goals and university life. S@GE, which stands for the Science at Guelph Experi-

ence, began May 6 and runs until June 14 and is expected to attract more than 1,000 students.

Campbell and O'Meara have been chosen as important role models to promote healthy sport and healthy lifestyles, says Gillian Joseph, a manager for program development in the Office of Open Learning, which works with faculty on developing the camp's learning modules.

"S@GE is not just a great way to learn about chemistry, physics and technology," she says. "It is also

about the connections among art, science and social science, as well as the impact science and technology have on humans, animals and the world around us. There is something for every interest and aptitude."

Campbell, who is acting supervisor at the U of G Child-Care and Learning Centre, has won many national and international awards and medals for track and field and was inducted into the Guelph Sports Hall of Fame. O'Meara, a U of G student, is a national and international box-

ing champion currently ranked third in Canada. He won a silver medal in the Pan American Games trials and has represented Canada in Ireland, England, France and the United States.

S@GE, now in its fourth year, is a three-day residential science and technology program co-sponsored by the Office of Open Learning, Hospitality Services and Student Housing Services. Students register as a school class, staying in residence with their teachers and parent chap-

erones and experiencing interactive learning using U of G's computer and laboratory facilities.

The learning modules are designed along the themes of the Ontario school science curriculum to promote intellectual creativity and a sense of discovery. The modules are developed by Guelph faculty and are typically taught by graduate students or senior undergraduates. Participants are able to use equipment or resources that provide a practical "hands-on" approach to learning.

TOWARD 2010

THIS IS PART of a continuing series to introduce new faculty to the U of G community.

ANDREW BENDALL

Assistant professor, Molecular Biology and Genetics

Background: B.Sc., Australian National University; PhD, Macquarie University, Australia

Teaching objectives: An understanding of genetics is fast becoming a prerequisite for making informed choices about our collective way of life. I aim to help students see the relevance of course material to their own lives. I am also committed to the idea that those who practise and learn about science are enriched by an understanding of the historical context of the discipline. I incorporate a historical perspective in teaching as a way to analyse and appreciate the nature of progress in science.

Research objectives: To understand embryonic events at the molecular level by working at the interface among biochemistry, molecular biology and embryology. I am particularly interested in the functions of homeobox genes during vertebrate development because they are involved in regulating many of the fundamental processes of embryogenesis. These studies have implications for understanding processes as diverse as human disease and the evolution of animal bodies.

Attraction to U of G: The reputation of Guelph as a university that combines a tradition of excellence in undergraduate teaching with a strong commitment to research. The availability of state-of-the-art genomics/proteomics and animal facilities at U of G was particularly attractive.

DOMINIQUE BUREAU

Assistant professor, Animal and Poultry Science

Background: B.Sc.A. (Bio-agronomy) and M.Sc. (animal science), Laval University; PhD (nutritional sciences), University of Guelph.

Teaching objectives: To present students with challenging and up-to-date material on the nutrition of aquatic animals. To help students acquire the skills and knowledge

they need to be able to search, understand and critically evaluate nutritional information and then use this information to address various real-life issues.

Research objectives: To better understand how fish grow and how various factors affect the way fish use nutrients. Another goal is to develop more cost-effective and less wasteful fish feeds and production strategies.

ing aspects related to Aboriginals working and training in the hospitality industry.

Attraction to U of G: The School of Hotel and Food Administration's strong reputation in Canada.

BRAD HANNA

(Photo not available)

Assistant professor, Biomedical Sciences

collaborating with groups here and at other universities to study a variety of plant, animal and human membrane transport proteins using the *Xenopus* oocyte expression system.

Attraction to U of G: A school of veterinary medicine known for the excellent calibre of its graduates, the reputation of the University as a whole, the large clinical caseload at

tions and works in progress focus on issues in epistemology, philosophy of language and philosophy of mind. Specifically, I am interested in concept possession, self-knowledge, inferential-role semantics, attitude ascription and *a priori* knowledge.

Attraction to U of G: The prospect of a fruitful intellectual environment, due both to the calibre of philosophical interlocutors in the Philosophy Department and to the University's long-standing support for philosophical research.

BLAIR NONNECKE

Assistant professor, Computing and Information Science

Background: B.Sc. and M.Sc., University of Guelph; PhD, South Bank University, U.K.

Teaching objectives: I want to be a good teacher, expand my knowledge and have students come away with an appreciation and better understanding of human-computer interaction.

Research objectives: To develop a better understanding of technology and its impact on human beings. I am particularly interested in the use of computers in creating online communities and the role computers play in our daily lives.

Attraction to U of G: Good friends, a growing department and a great campus.

MICHELE OLIVER

Assistant professor, Engineering

Background: BPE, McMaster University; MPE, M.Sc.E. and PhD (mechanical engineering), University of New Brunswick

Teaching objectives: To provide a learning environment where students can learn the course material while concomitantly developing their critical and integrative thinking abilities.

Research objectives: My primary focus is the study of the mechanics of joystick controllers used in large mobile construction and forestry vehicles, as well as the effects that these controllers have on the biomechanics of their human operators.

Attraction to U of G: The acceptance of interdisciplinary study as well as the balance of importance assigned to teaching and research.



Andrew Bendall



Dominique Bureau



Stefan Groschl



Mark McCullagh



Blair Nonnecke



Michele Oliver

STEFAN GROSCHL

Assistant professor, School of Hotel and Food Administration

Background: M.Sc. (international hotel and tourism management) and PhD, Oxford Brookes University, U.K.

Teaching objectives: Provide students with a framework to identify, analyse and evaluate issues in organizational behaviour and human resource management.

Research objectives: I am writing a paper based on my PhD, which focused on cultural differences between French and British managers in an international hotel organization. I am also interested in research-

Background: B.Sc. (biology), DVM, M.Sc. and PhD (biophysics), University of Guelph. Also licensed to practise veterinary medicine in Ontario.

Teaching objectives: In the DVM program, to help veterinary students apply knowledge of physiology and pharmacology to the solution of clinical problems and to encourage a critical approach to all forms of therapy. In the science programs, to encourage enthusiasm for science.

Research objectives: I am currently examining the effects of disease-related ion channel mutations on channel function using electrophysiological techniques. I'm also

the Veterinary Teaching Hospital and opportunities to teach students in clinical and science programs.

MARK MCCULLAGH

Assistant professor, Philosophy

Background: BA, University of Toronto; PhD, University of Pittsburgh

Teaching objectives: To help students express their long-suppressed philosophical urges, both by provoking lively argumentative discussions and by providing critical feedback on written expressions of their views.

Research objectives: My publica-

Construction Gets Under Way on Guelph-Humber Building

CONSTRUCTION HAS BEGUN on the University of Guelph-Humber's new academic building in Toronto. After a public tender process, the general construction contract has been awarded to Ball Construction Inc. of Kitchener, which has built more than 40 academic buildings in Ontario.

The \$45-million facility, scheduled for completion in summer 2003, will be a four-storey structure with classroom and laboratory space for 2,000 students, a 200-seat learning commons, an Internet café and a student-run art gallery. The building is an essential part of U of G's commitment to help accommodate

the "double cohort" of students expected in 2003, says David Trick, Guelph-Humber's vice-provost and chief administrative officer.

To date, 1,404 students have applied to be part of the University of Guelph-Humber's first class of students this September. Guelph-Humber plans to enrol about 240 students this fall in business, computing and media studies.

Simultaneously, planning is already under way to develop Guelph-Humber's academic strengths and expand its program offerings. More than two dozen faculty from Guelph and Humber participated in a March 27 "visioning" day, which focused on defining Guelph-Humber's identity, sharpening its program goals and considering new offerings. Four new

programs have already been approved for September 2003: justice studies, early childhood services, family and community social services, and gerontology.

"A team of Guelph-Humber faculty led by Nancy Burt of Humber and Prof. Fred Evers of Guelph is tackling the major task of curriculum development," says Prof. Michael Nightingale, Guelph-Humber's vice-provost and chief academic officer.

"The team has developed almost 100 courses, which will be offered for the first time over the next two years," he says. "These have been developed from scratch, integrating both Guelph's learning objectives and Humber's employability skills."

The University of Guelph-Humber's Web site has been awarded a silver medal in the annual competition hosted by the Canadian Council for the Advancement of Education. The site (www.guelphhumber.ca) was designed and implemented under the direction of U of G Web master Stuart Robertson.

During the peak of this year's recruitment season, more than 800 users a day visited the site. There, visitors can take a virtual tour of the new University of Guelph-Humber building, find out about new programs and register for campus visits. More changes to the Web site are planned to better serve the needs of Guelph-Humber's first students this September.

Campaign Volunteers Thanked for Commitment to University's Future

THE CAMPUS community campaign has been a success principally because of the great efforts of the dozens of faculty, staff, retiree and student volunteers who brought the campaign's message to their individual units.

On April 24, these volunteers were recognized at an appreciation breakfast at the Arboretum. President Mordechai Rozanski and Prof. Rob McLaughlin, vice-president (alumni affairs and development), thanked individual volunteers for their commitment to the University's future.

"This campaign has been a real opportunity for each of us to show how much we care about Guelph and how much we want to make it an even better place to work, teach, learn and do research," Rozanski said.

"And you have certainly done so while inspiring others to do so, as well. I am so glad to be here to personally thank you. It is a well-deserved recognition of the time and energy you have devoted to our campus community campaign."

Contributions to the campus campaign continue to come in from the University community, both here on the Guelph campus and beyond. At Ridgeway College, for example, faculty and staff are contributing towards the college's millennium building project. At the Vineland campus of the Department of Plant Agriculture, staff are making donations to the department's professional development fund, which will enable staff to obtain funding for special or additional work training, attendance at conferences, participation at seminars, etc.

Other off-campus members of the community who are showing their support for the campaign include members of Board of Governors, the Board of Trustees and the U of G Foundation Board.

The following is a list of the campus community campaign volunteers:

• Len Adams, College of Arts



Sylvia Wilms of Hospitality Services, left, Agnes Allen of the president's office, centre, and Marilyn Langlois of Student Affairs were three of the dozens of campus community campaign volunteers honoured at an appreciation breakfast.

PHOTO BY MARTIN SCHWALBE

• Agnes Allen, Executive Offices

• Catherine Bakker, OAC

• Lynn Bardwell, OVC

• Margaret Bates, OVC

• Kim Best, OVC

• Mary Beverley-Burton, Retiree Representative

• Kathy Biondi, OAC

• Rob Brooks, CPES

• Sandra Brown, CBS

• Mary Ann Burrows, Alumni House

• Ross Butler, Alumni House

• David Castle, Arts

• Daniel Chouinard, Arts

• Patricia Collins, Laboratory Services

• Maureen Collins, Physical Resources

• Joe Cunsolo, CPES

• Bill Culp, OAC

• Shari Dorr, Registrarial Services

• Karen Drabek, OVC

• Mildred Eisenbach, Student Affairs

• Val Fennell, Library

• John FitzGibbon, OAC

• Glenn Fox, OAC

• Barbara Funk, Student Affairs

• Allan Gale, Library

• Ann Gibbins, OAC

• Doug Goff, OAC

• Roger Hacker, OAC

• Mary Haggarty, Registrarial Services

• Mary Halpenny, Lab Services

• Thom Herrmann, Faculty Representative

• Deborah Hilborn, OAC

• Stewart Hiltz, OAC

• Pat Hoare, Finance/Mail/Purchasing

• Rick Horton, CBS

• J.J. Hubert, CPES

• Abdullahi Hussein, Lab Services

• Bruce Knack, Finance/Mail/Purchasing

• Peter Krell, CBS

• Richard Kuhn, CSAHS

• Peter Landoni, Registrarial Services

• Marilyn Langlois, Student Affairs

• Bob Liptrap, Retiree

• Ben Lu, CBS

• Connie Male, Physical Resources

• Bruno Mancini, Student Affairs

• Richard Manning, Alumni House

• Virginia Marcille-Kerslake, Lab Services

• Harvey Marmurek, CSAHS

• Wayne Martin, OVC

• Wendy McGrattan, OAC

• Chris McKenna, CSAHS

• Pearl Milne, Library

• Gerta Moray, Arts

• Doug Morrison, Library

• Ellen Morrison, Library

• Shahnaz Negi, Alumni House

• Rick Nigol, Office of Open Learning

• Angela Orton, Student Affairs

• Ellen Pearson, Retiree

• Toni Pellizzari, CBS

• Shirley Peterson, Retiree

• Brian Pettigrew, Registrarial Services

• Bill Pires, Student Affairs

• Gabriele Polsterer, Student Affairs

• Joanne Poluch, Registrarial Services

• Fred Ramprashad, CBS/CPES

• Eric Reiche, Arts

• John Reinhart, Physical Resources

• Julie Round, Research

• Garry Round, Physical Resources

• Steven Scadding, CBS

• Todd Schenk, Student Representative

• Nick Schrier, Lab Services

• Mark Sears, OAC

• Kenda Semple, Staff Representative

• Beverley Sharpe, OVC

• Andy Sherwood, Arts

• Sandra Shore, Library

• Tannis Slimmon, OAC

• Elaine Smith, OVC

• Geoff Smith, CSAHS

• Thomas Smith, OAC

• Suzanne Soto, Executive Offices

• Paul Stack, Library

• Nancy Stanlick, Library

• Clarence Swanton, OAC

• Cal Swegles, Human Resources

• Ruth Switzer, Registrarial Services

• John Tarrt, OVC

• Fran Thomas, OAC

• Marg Timmins, OAC

• Joseph Tindale, CSAHS

• Sheila Trainer, Retiree

• Gary Umphrey, CPES

• Jenny Van De Kamer, OAC

• Linda Visentin, Alumni House

• Marjorie Wall, CSAHS

• John Walsh, CSAHS

• Jack Weiner, CPES

• Alan Wildeman, Research

• Sylvia Wilms, Hospitality Services

• Brian Wilson, CBS

• Tony Winson, CSAHS

• Mary Woodside, Arts

• Ken Woodside, CSAHS

• Dan Yarmey, CSAHS

• Karen Zago, Executive Offices

If we have missed you, our sincere apologies, and please look for your name at <http://www.uoguelph.ca/campaign/index.shtml>.

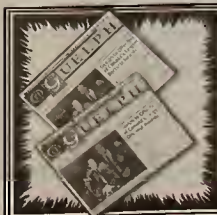
UPDATE ON CAMPUS COMMUNITY CAMPAIGN RESULTS

Total Raised to Date From Faculty, Staff and Retirees: \$557,110

Average Gift Made to U of G: \$1,013

Percentage of New Donors to the University: 40 per cent

You can still give! For a pledge form, visit the Web site www.uoguelph.ca/campaign.



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LESSONS LEARNED IN KENYA

*"It seems like the hottest, coldest, wettest, driest, dirtiest,
most pristine place — all at the same time — in Africa"*

By OWEN ROBERTS

I'VE BAKED IN THE FIELDS through the height of south-western Ontario summers, working in blazing heat on vast cash-crop farms in Kent County. Prof. Chris Hall, Environmental Biology, has paddled and trudged through sweltering, bug-infested wilderness canoe trips in northern Ontario where he didn't see anyone for days. And Prof. Vince Souza-Machado, Plant Agriculture, who spent half his life in his native Tanzania and neighbouring Uganda, has experienced equatorial conditions. But after participating in this year's nomadic Canadian Field Studies in Africa (CFSA) program in Kenya, we all agreed we'd never experienced anything so intense, extreme... and fulfilling.

The CFSA is a one-of-a-kind academic exercise in which varying numbers of Canadian university students (70 this year, way up from last year's 41), a dozen faculty and instructors, a medical officer and 30 Kenyan support staff — cooks, drivers and guards among them — form a travelling tented community to cover thousands of kilometres and every landform imaginable in Kenya. It seems like the hottest, coldest, wettest, driest, dirtiest, most pristine place — all at the same time — in Africa.

We three joined other faculty and instructors from Queen's University, McGill University, the University of Victoria and Langara College who had been invited to teach courses in this, the CFSA's 10th year in east Africa. Throughout the three months of the program, faculty typically participate for staggered three- to six-week intervals, delivering 39 hours each of instruction (along with assignments, projects, midterms, finals and field trips) per course. Student contact is constant; instructors and students are together for most, if not all, of each day, and they grow quite close as a result. Tearful goodbyes are not uncommon when courses end and individual faculty complete their stint in the program.

Technologically, teaching conditions are challenging, primarily taking place in two or three darkened tents capable of holding 20 to 60 students. Audio-visual equipment is limited to two creaky overhead projectors. Instructors are discouraged from using PowerPoint (but some did, anyway) in case their computers break down in the middle of nowhere, with no one to fix them.

The archaic teaching technology is consistent with the abysmal communications to the outside world. The camp directors have a satellite phone for emergencies and cell phones reserved for business and personal calls, but students are not allowed to have cell phones or bring laptops. Instead, the camp has two laptops (one for instructors, the other for students) for e-mail. These are constantly booked, but depending on the proximity of a reliable Internet connection — which is rare — senders can never really count on mail going out or coming in. If you do manage to get to a phone, calls to Canada are \$10 a minute. Snail mail is much cheaper, of course, but it takes almost a month to get a letter back home.

But that doesn't bother the students, who are genuinely committed to fulfilling their academic requirements and experiencing the country, rather than sitting in front of a laptop. Primarily third- and fourth-year undergraduates, the students enrol in up to five courses such as entomology, herpetology, ornithology, wildlife conservation, sustainable development, environmental management, peoples and cultures, tropical agroforestry (taught by Souza-Machado), natural chemicals in



Owen Roberts, far left, and Prof. Vince Souza-Machado, far right, pose with the U of G students who participated in this year's Canadian Field Studies in Africa program in Kenya.

the environment (taught by Hall) and natural history, which for the first time this year included a communications component, my contribution. Two courses, marine biology and archaeology, were taught by Kenyans. Scuba diving is also part of the program, taught by Canadian instructors from Winnipeg and Vancouver.

The program is expensive. Students — who this year included 15 from Guelph, the second-highest number behind McGill, as well as others from eight more universities — pay \$12,500 each for the semester. That sum includes return transportation from Canada and food, security and lodging for three months.

But even that steep price doesn't reflect the breadth of the CFSA experience, which from the minute you touch down at tired Jomo Kenyatta airport in Nairobi — perhaps with dictatorial Kenyan president Daniel Moi and his entourage on board, as we did — you know will be wild.

After deplaning, students step up — way up, about two metres — to their transportation for the duration of their stay: eight relatively reliable lawn-green Bedford ex-British army trucks, with Canadian flags handpainted on the doors and the program's name emblazoned above them.

That signage is meant to send a message to the dozens and dozens of dusty towns the diesel-powered trucks rumble nosily through: we're an educational program and we're not American (although two of the students were). That didn't stop the occasional angry cry of "Osama!" in some of the heavily Muslim-populated centres and catcalls from men, aimed at the sweltering young Canadian women often reduced to tank tops and shorts (56 of the 70 students were women), hoping for a breeze in the stifling Kenyan heat.

Negative reactions were hardly the norm, however. Most townspeople, especially children, clearly regarded the Canadian caravan as a curiosity and novelty. They'd smile, yell "Jambo" (Kiswahili for a warm and heartfelt "hello"), come running to the trucks and wave enthusiastically with both hands and arms as we chugged through. Daytime cultural and educational stops at schools and some villages were well received by participants, who, for safety reasons, were segregated from the citizenry in the evenings.

When we reached a destination, the camp — including cooking facilities, water-purification units, sick bay, outhouses, teaching tents and sleeping tents — was struck immediately. At least 30 tents would go up in less than an hour. Three students slept in same-sex, self-determined groups in new four-person tents, along with all their gear (a maximum allotment of one

dufflebag each). Faculty and instructors had their own tent; some, who would garner favours from camp staff with a few shillings or a used T-shirt or running shoes, had a cot as well. Everyone had a four-inch-thick foam mattress that felt like paradise after full days that typically started with a 6 a.m. wake-up bell and ended with the generators being shut down at 10 or 11 p.m., followed shortly by curfew. After that, some students would read or study by flashlight or headlamp if they had the energy.

For meals, the camp cooks catered to North American tastes, even accommodating the preferences of the 24 vegetarians in the group.

Campsites were varied, far-ranging and seldom formal. They ranged from the back of hotel grounds in the highlands, where near-freezing nighttime temperatures called for toques and sleeping bag fully zipped to your neck, to a

town on the coast of the Indian Ocean where temperatures regularly soared to 42 C. Other sites included an estate farmer's leisure land, a Club Med-like resort in the interior and a small woodlot in the middle of the Maasai mara, where lions, cheetahs, hyenas, giraffes, elephants, cobras and herds of zebras, wildebeest, elands and gazelles roam freely on the savannah — sometimes almost close enough to smell their breath. Case in point: we awoke one morning at 3 a.m. to the menacing sound of lions roaring no more than 30 metres away and a half-dozen Maasai tribesmen and guards — armed with spears and clubs only, no guns — assembling to quickly formulate a plan to scatter the beasts. It's an experience you just don't get in Ontario, not even at African Lion Safari.

And experience is the key for students and faculty alike. Souza-Machado says Kenya provides an unparalleled range of people and ecology to exemplify biodiversity, both culturally and biologically — the Great Rift Valley, archeological sites of major finds, tribespeople with roots dating back to the beginning of civilization, and the most abundant wildlife in the world. Faculty get to see — and show their students — real-life examples of wildlife that, as program founder Don MacDonald of Langara College says, "aren't soaked in formaldehyde."

Adds Souza-Machado: "I believe the educational opportunities presented on the program's travels are unequalled for students. They learn what they never could in the classroom, both academically and socially, as they depend on each other, work together and make lifelong friends."

And they have their eyes wide open to Africa, maybe never to be closed again. Enough security is in place to deter danger in the camp, but it's never far away, and it's impossible to turn it off. For example, AIDS has afflicted up to 60 per cent of the population in some communities. Moi's government is so seedy that foreign countries are reluctant to lend it money. A national election is pending, but century-old tribal rivalries continue to influence voters.

"As students carry out their studies in Kenya, they see how you can die there from the elements, from disease, from predators or from civil strife, and they seem to gain a new respect and understanding of life," says Hall. "That's a pretty important lesson for students, and I'd argue that they learn more there than in their entire university career."

For more information about the CFSA, visit the Web site www.langara.bc.ca/Africa.

Owen Roberts is director of research communications in the Office of Research.

TURNING ADVERSITY INTO OPPORTUNITY

Ex-army officer forges new path after becoming victim of vicious assault

BY ANDREW VOWLES

OF G GRADUATE STUDENT Sunil Ram recalls the spring afternoon eight years ago when his life "flipped upside down." Living just outside Regina at the time, he'd been downtown with a business associate at the office where he and several other ex-army buddies had been running a small consulting company since the late 1980s.

Ram and his friend emerged from the office that afternoon to confront a group of youths high on alcohol or drugs, armed with two-by-fours and, as Ram puts it, "looking for trouble." Ex-soldiers or not, he and his friend were outnumbered. After knocking out Ram's colleague, the assailants managed to break Ram's arm before he was able to lock a chokehold on one of the youths. "My soldier mode had kicked in. I wasn't even trying to be fair." Only half-lucid, having been clubbed repeatedly on the head, upper back and hands, he decided to play dead.

Ram remembers getting up and helping to revive his friend, then staggering into a nearby pub before being rushed to the hospital. "The police figured if they'd hit me one more time, I would have died."

The lingering effects were both physical and mental. Ram couldn't use his hands, and his upper body was immobilized for a time. Even today, after the two years he spent in physical rehabilitation, he has trouble with fine motor tasks. (A collection of thousands of miniature soldiers and army equipment that he began collecting as a war games hobbyist at age 10 has been in storage ever since he was injured).

Today, Ram draws a straight line from that fateful spring day in Regina and a classic case of "being in the wrong place at the wrong time" to his recently completed master's program in public policy and public administration — supervised by Prof. Richard Phidd.

It was the attack that led to Ram's return to university, initially in Regina, then at Guelph. "I never thought I'd be here I am," he says. "The assault changed my life completely."

Before the attack, Ram and his colleagues — all former electronics and communications specialists with the Armed Forces — provided services ranging from resolution of international border disputes to strategic and technical advice to Saudi Arabia from the 1991 Gulf War to the mid-1990s.

Regina was home turf for Ram, who had grown up in Oxford and Regina before joining the Canadian military at age 17. Initially joining in the ranks, by the time he left the service in his early 30s, he was an officer. Among his duties, he had worked on classified projects during the Cold War.

Despite its all-consuming importance then, he says all that hush-hush work seems passé now, something that was underlined for Ram a few years ago when he visited his old squadron, where his former top-secret bunker was being decommissioned. "The world has changed. A lot of what I knew is not so important."

If it seems archaic to him today, he can only imagine how his experiences during the past two decades must have struck some of the undergraduates encountering him as their teaching assistant during his past two years at Guelph.

"People are surprised to learn I'm 40," says the youthful-looking, soft-spoken mature student.

He remembers the skeptical faces during a get-acquainted session for his fellow graduate students in political science when he began his master's degree in 2000. When it came to his turn during the obligatory round of introductions, he tried to skim over his career path. But how do you soft-pedal a nearly 20-year army career, award-winning work in international peacekeeping, an adjunct teaching post at the American Military University — not to mention an ongoing stint as a military adviser to the Saudi royal family?

Right, the Saudi royal family. Even Ram and his colleagues thought they were being strung along when someone called in the late 1980s claiming to represent the Saudis. The call turned



out to be a legitimate response to an advertisement the company had placed through the Department of Foreign Affairs.

"The Saudis invited us to the kingdom to discuss business," says Ram, who still serves as a consultant to the Middle Eastern nation. In fact, he had been slated to visit Saudi Arabia shortly after he was assaulted, but that visit never occurred. Instead, he received a call from a senior Saudi officer to offer him a couple of bodyguards. He laughs as he recalls trying to make his caller understand that "it would be hard to explain why two armed Bedouins were following me in downtown Regina."

Recalling the reaction his abridged CV caused among his fellow graduate students at Guelph, Ram says: "You could just see everyone looking at me and thinking, 'What a big jerk.'" Several of his undergraduate students later checked for his name on the Internet just to verify his claims.

"I could sit here and cry about what these people did to me. At the end of the day, those individuals will live and die, and history will forget them."

One question a few fellow students might have left unasked was how this ex-army officer and international peacekeeping expert ended up studying political science at Guelph.

Having lost his business following the assault, Ram had paid off his debts but had lost everything else. "I had gone from jetting around Saudi Arabia to not being able to afford gas for my vehicle."

He already held a double major in history and anthropology, earned part time while in the army. And before the assault, he had been working part time on a political science degree. University of Regina political science professor Shreesb Juyal convinced him to resume his studies, initially just a course at a time and then as a full-time honours student. He completed that degree in 1997.

While at Regina, Ram took part in a model United Nations program with Juyal, which included a four-day international conference in Los Angeles. Ram's peacekeeping studies and activities saw him chosen as one of 30 Canadians, including Juyal, to receive a UN Global Citizen Award in 1995.

Ram had taken peacekeeping courses through the UN Institute for Training and Research. Dissatisfied with a particular course on the early 1990s conflict in the former Yugoslavia, he wrote his own updated version of a course, drawing on his military history background and his knowledge of the conflict from peacekeepers who had served there.

Along with Juyal, he now teaches that undergraduate offering as one of 13 correspondence courses offered by the institute. He also teaches peacekeeping to American armed forces as an adjunct professor of military history at American Military University, a distance-education university based in Manassas Park, Virginia.

It was his work there that prompted him to enrol in graduate school two years ago. Although he'd been earning acclaim as a peacekeeping expert, he saw little chance for promotion without a graduate degree.

By this time living in Mississauga with his wife, Aditi, he applied to several universities within commuting distance and landed a scholarship at Guelph. "I like the campus. It reminded me very much of the smaller universities I was used to," he says.

While studying aspects of civil and military cooperation in peacekeeping operations, he has concentrated on writing, both for his course work and for newspapers and journals. That work has served a dual purpose, one going back to the 1994 assault and a lingering mental impairment.

Explaining that his mental acuity is about 90 to 95 per cent compared with what it was, he says: "I write all the time. If I don't write, my reading and writing skills degrade."

Besides its therapeutic benefits, writing allows him to share his ideas and knowledge on current affairs. Within hours of the terrorist attacks in the United States Sept. 11, Ram was on the phone and in television studios providing comment and analysis for the media. He's lost count of the number of commentary pieces he's written, including articles for the *Globe and Mail*, on various issues, including the attacks and the subsequent war in Afghanistan. His most recent *Globe* commentary, on the deaths of the Canadian soldiers in Afghanistan, appeared in the April 30 issue.

Shortly after the attacks, Ram received yet another call from his Saudi contact to ask whether he'd fly to the Middle East to help gauge the extent of Saudi involvement among Al-Qaeda forces. The notion that he would turn them down to continue his studies at Guelph prompted some incredulity on the other end of the line. But Ram stood his ground.

"I had already made the commitment. I told the Saudis I wasn't going to be available for any real work for a couple of years."

With the completion of his master's degree this spring, Ram now finds himself with more spare time than he'd expected. He had applied to three nearby universities for a doctorate — he was interested in studying the altered security environment since Sept. 11 — but recently learned that all three had turned him down. Instead, he may look for full-time work or at least seek out contract work while reapplying for doctoral studies.

Not being accepted for a PhD program was upsetting, he says, but "after 1994, nothing is a big issue for me."

When Ram thinks about the assault and his road back to recovery, he acknowledges that he might have been tempted to give up. He's been asked at least once whether he resents his attackers.

His response? "What's to resent? I could sit here and cry about what these people did to me. At the end of the day, those individuals will live and die, and history will forget them."

By contrast, "I've made a contribution to world peace through the promotion of peacekeeping in what little way I can. Those actions have prompted the national media to get hold of me and ask what my opinion is. There's a little piece of me in the public record."

OMB Approves Motion to Amend City's Official Plan

University land rezoned to institutional/research park

IN THE LATEST ROUND of Ontario Municipal Board (OMB) hearings in Guelph — which began April 15 but have now been adjourned to Aug. 12 — the board approved a motion by U of G for an amendment to the city's official plan to have 31 acres of University land rezoned to institutional/research park from major institutional.

The new zoning is the same as that in place for the lands south of Stone Road, site of the existing Research Park, and it means the University can now begin planning in more detail for additional research use and tenants for those lands, says John Armstrong, U of G's director of real estate.

"We will be able to continue to provide the same synergistic relationships with the institution so successfully created in the existing Research Park," he says.

What remains before the OMB, and will be the subject of the remainder of the board's hearings in August, is the request for rezoning of 12.8 of the 31 acres to also permit commercial/retail uses, says Nancy Sullivan, vice-president (finance and administration).

This would be an added use and, if approved by the OMB, would allow for the building of a new Zellers store on leased University lands, replacing the store currently located in the Stone Road Mall. In turn, the mall's Zellers space, which would be expanded, would accommodate a proposed Hudson's Bay Store. (Under consideration at the same hearing is the request by 6&7 Developments for rezoning to permit construction of a Wal-Mart store in Guelph's north end.)

Sullivan says the leasing revenue U of G would derive from the commercial component of the research park lands would help cover the costs of adding roads, utility infrastructure and sidewalks and carrying out other development on the proposed research park lands. Any balance would go into the University's Heritage Trust Endowment fund.

On April 30, the OMB adjourned the hearings to Aug. 12 primarily to give Wal-Mart's consultant the time he requested to revise the store's marketing reports to reflect the most recent (2001) sales data, which the OMB ordered be released.

LETTERS

GAMBLERS SHOULD KNOW TRUE ODDS

During his research field trips to Reno and Las Vegas, Prof. Harvey Marmurek, Psychology, seeks to discover whether there is some aspect of casino design that "keeps problem gamblers thinking they have a chance of winning long past the time when they should have realized the odds are against them" (@Guelph, April 24). In fact, slot machines are engineered so that the odds are heavily against the gambler. That's why organized crime runs casinos rather than flower shops.

Like TV game shows and lotteries, casinos are important elements in the social-control structure of capitalism, holding out to even the poorest, most desperate and least talented the illusion that they, too, will one day be fabulously rich. Rather than tinkering with architectural design elements such as "asymmetrical colours" and the absence of windows and clocks, casinos should be required to inform all gamblers of the true odds for each game and to explain that the law of averages (the misconception that one's odds improve with each successive loss) is fallacious.

The time when gamblers should realize the odds are against them is the moment they walk into the casino.

Prof. David Josephy
Department of Chemistry and Biochemistry

YES FOR NATIONAL PUBLIC MEDICARE

On behalf of the Guelph-Wellington Health Coalition (GWHC), I would like to ask the U of G community to show its support for publicly funded national public medicare.

The Ontario Health Coalition and the GWHC are circulating a petition in support of maintaining Canada's publicly funded health-care system. It will be submitted after May 15 to the Commission on the Future of Health Care in Canada. Led by Roy Romanow, the commission is studying solutions to the perceived health-care sustainability problem.

The petition asks Romanow to recommend the following in his final report:

- that our health-care system be publicly funded, administered and delivered;
- that profit-making be kept out of our health-care system;
- that primary care be reorganized into teams of health-care professionals serving the needs of, and be accountable to, their communities;
- that home and long-term care and pharmacare be covered by medicare;
- that the federal government increase and stabilize its funding for medicare; and
- that the federal government take a leadership role in the building of healthy communities and a healthy environment as central to a healthy population.

Those interested in supporting the campaign can sign the petition in a number of ways.

1. You can e-mail a message with subject "Yes for National Public Medicare" to pmartini@uoguelph.ca.
2. You can sign a hard copy of the petition during office hours in the Department of Land Resource Science, Room 230 of the Richards Building, until May 15.
3. The petition will also be available until May 15 at the GWHC office at 29 Macdonell St. It can be signed weekdays and Saturday from 11 a.m. to 1 p.m. and 5 to 8 p.m. Call the office during these hours at 836-4338 for more information.
4. In addition, the petition will be available for signing May 15 during the final campaign demonstration in St. George's Square from 4 to 6 p.m. Music and refreshments will be available.

For more information, visit the Web site www.ontariohealthcoalition.ca or call the GWHC office at the number listed above. Information is also available on the Web at www.romanowcommission.ca.

Peter Martini, University Professor Emeritus
Department of Land Resource Science

WHOSE FACTS? WHOSE FICTIONS?

In their April 24 replies to my April 10@Guelph letter about the Food Safety Network, Prof. Doug Powell and Ken Murray do not respond with relevant evidence to the facts I reported. Instead, their letters assert what has been shown to be false, as reflected in the headlines: "Comprehensive Information From Farm to Fork" and "Network Separates Fact From Fiction."

Not a shred of disconfirming evidence is given to answer the serious issues I raised, specifically that virtually none of the suspect GMOs have yet been tested for potentially disastrous ecological impact by dispersion, genetic dominance and contamination of organic food crops and other species, or tested for their allergenic effects expressed by their genetic milieus — in short, for their actual effects on life systems.

Diverting from my argument to false and wild claims of "conspiracy theories" and completely unsubstantiated claims of "inaccuracies," the authors repress these issues from view. I invite readers to revisit my letter in light of the authors' responses. The letter can be found on the @Guelph Web site at www.uoguelph.ca/at-guelph/02-04-10/index.html.

Prof. John McMurtry FRSC
Department of Philosophy

SEMANTICS, EVOLUTION & DESIGN

The recent letter by Profs. Denis Lynn and Ron Brooks (@Guelph April 10) is disappointing. We expressed our doubts that natural selection plus random mutation can explain the transformation of simple molecules to Einstein. Rather than offer scientific explanations or evidence for this alleged transformation, the authors discuss the shades of meaning of creativity, theory and truth and conclude with the tired assertion that evolution is the best scientific explanation for the diversity of life.

Granted, among scientists, Darwinian evolution is the most widely accepted explanation of origins, but that doesn't mean it's the correct explanation. One thing is certain; evolution can never be empirically verified in a manner similar to the concepts of radiation or enzyme function. In that sense, evolution cannot be proven, but perhaps it can be disproven.

Former U of G philosophy professor Michael Ruse, one of the best-known apologists for evolution, said the work of William Dembski should not be ignored. Dembski is a leader in the emerging science of design. Building on well-established principles of logic, mathematics and probability, design scientists are developing rigorous empirical methods to positively detect design. Can it be established beyond reasonable doubt that evolution did not and could not "design" Einstein? We think so.

As our final contribution to this round of discussions on origins, we would like to invite members of the University community to attend a book study that is meeting once a week for six weeks during May and June. The book is Dembski's latest, *No Free Lunch: Why Natural Selection Can't Design Anything*. If you would like to participate, call Ext. 3875 or send e-mail to arhill@uoguelph.ca.

Prof. Bonnie Mallard, Pathobiology
Prof. Art Hill, Food Science

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Universal Instructional Design Project Launched

Goal is to achieve inclusiveness and equity for students with varying learning needs

A NEW INSTRUCTIONAL PROJECT intended to improve teaching and learning for students—including students with physical or learning disabilities—is generating interest and a lot of novel ideas among faculty across campus and instructional consultants in Teaching Support Services (TSS).

The Universal Instructional Design (UID) Project is also being closely watched by officials from the Ministry of Training, Colleges and Universities, which has provided more than \$350,000 for initiatives at U of G and the University of Guelph-Humber through the provincial Learning Opportunities Task Force (LOTF).

Under the two-year project, faculty members involved in eight selected undergraduate courses or enhancement projects are working with TSS to broaden their teaching methods, styles or materials to accommodate varying learning styles, including learning needs of students with a range of disabilities.

The project grew out of Guelph's Learning Opportunities Program (LOP). Under that program, U of G's Centre for Students With Disabilities received funding from LOTF to develop resources and provide support for students with learning disabilities. Within that project, TSS also received funding to develop faculty resources and to improve modules or teaching approaches.

"I had successfully argued that if faculty are using sound pedagogical practices in their teaching, there will be less need for specialized supports for students with particular learning challenges and disabilities," says TSS director Prof. Julia Christensen Hughes. "One outcome of this project was the development of a handbook that was distributed to all faculty with suggestions on how to teach effectively to students with diverse learning needs."

In addition, she says, several courses received instructional design and courseware development support. "Assessments showed that the majority of students believed the enhancements had had a significant positive impact on their learning."

Having seen promising results from the LOP program, the provincial task force provided \$260,000 for the UID Project (the University provided \$60,000). With another \$100,000 in support from LOTF, organizers plan to extend the project to the University of Guelph-Humber.

Christensen Hughes says most U of G faculty support such principles as student-centred learning and helping students with diverse learning needs, but have lacked the time, expertise or resources to develop them. "This



As part of a UID project in the introductory chemistry courses taught by Prof. Bob Balahura and lecturer Lori Jones, demonstrations of various chemistry concepts will be videotaped and added to the course Web site. Here, Jones works with campus videographer Bill Milne of Teaching Support Services.

PHOTO BY MARTIN SCHWALBE

project will make it possible," she says.

Early this year, after conducting workshops and distributing information about UID and its goals, principles and purposes, TSS invited faculty to submit proposals for the project. The eight successful proposals were chosen by the TSS Council, which includes a representative from each college and teaching unit. The projects, listed below, range from complete course redesigns that could take two years to complete to enhancements that will be in place for next fall. Faculty members are now designing their projects with guidance and resources from TSS.

Intended to achieve inclusiveness and equity, UID is meant to enable all students to

complete courses without special accommodations. "Some educators have suggested that courses designed and delivered with the needs of disabled students in mind are likewise more accessible and effective for all people, regardless of possible disability, learning style preference or personal background," says an introduction to UID on the TSS Web site.

To be officially launched May 8 from 2:30 to 4 p.m. in Room 125 of Day Hall, the UID Project will see a variety of courses enhanced or even redesigned to widen learning options for students. In online course materials, for example, students would encounter not just screens full of text but also a deliberately designed mix of text, graphics and other elements intended

to appeal to varying learning styles. They would also have choices about how to access and interact with that material.

Used at several American universities, including North Carolina, Connecticut and Washington State, the concept was first described by Frank Bowe, a professor at Hofstra University in Hempstead, N.Y., and author of the book, *Universal Design in Education: Teaching Non-Traditional Students*.

Because UID is a relatively new area, TSS is conducting this as an action research project, hoping to distil the results into guidelines that all instructors can incorporate into their teaching, says Aldo Caputo, manager of TSS's Learning Technology and Courseware Innovation. "I think the research we're conducting in this project is groundbreaking," he says.

UID borrows from the principles of universal design used in architecture to make spaces and objects accessible not just for people with disabilities but for all users, says Caputo. He points, for example, to entry ramps designed for people in wheelchairs that end up making buildings more accessible for everyone from parents with baby strollers to older, less mobile adults.

"A simple change can create an equal playing field," he says, explaining that even a relatively minor alteration to a university course, such as giving extra time to complete online tests, could benefit all students.

Leader of the UID Project is Jaellayna Palmer, who recently joined U of G after working as a private educational consultant for local and international clients. She first heard about UID from Christensen Hughes at a conference last spring and was intrigued by the concept.

"The project has great merit," says Palmer. "Inclusiveness appeals to me not just as an educator but also as a human being."

She is working with Prof. Dana Paramskas, Languages and Literatures, to develop a self-directed learning tutorial, particularly for new students lacking a comprehensive French cultural background or grammatical skills. Besides helping those students, the project is intended to provide more specialized help to advanced students.

Another project involves faculty who teach two large introductory chemistry courses and, like Paramskas, they are investigating instructional media to help ease the transition from high school, to encourage higher-level thinking skills in students and to offer adjuncts to the traditional lecture format.

For more information about the UID Project, contact Palmer at Ext. 3858 or palmerj@uoguelph.ca.

BY ANDREW VOWLES

Current UID Redesign or Enhancement Projects

Chemistry 1040/1050

Prof. Bob Balahura, Chemistry and Biochemistry, and Lori Jones, CPES dean's office

French tutorials

Prof. Dana Paramskas, School of Languages and Literatures

Nutrition 3040/4040

Prof. Paula Brauer and Janis Simpson, Family Relations and Applied Nutrition

Applied Mathematics

Theo Hunter, Kemptville College

Foodservice Operations Management

Prof. Jeff Stewart, School of Hotel and Food Administration

Biomedicine 3120

Profs. William Harris and Patricia Gentry, Biomedical Sciences

Extended Media

Prof. Laurel Woodcock, School of Fine Art and Music

Agricultural Mechanization

Ben Hawkins, Kemptville College

Study Explores Link Between Soy, Prostate Cancer

Research was born out of statistics revealing that prostate cancer is significantly lower in Asia than in North America

INCORPORATING SOY into a balanced diet is increasingly being seen as a positive step towards better health, and experts now suspect the little bean can also make a big difference in preventing prostate cancer, Canada's most common form of cancer in men.

In the first Canadian soy research initiative of its kind, Prof. Alison Duncan, Human Biology and Nutritional Sciences, is conducting a study to determine how soy isoflavones affect specific hormones in the blood.

Prostate cancer is a hormone-

dependent disease, and Duncan hopes soy isoflavones may be able to reduce hormones in the blood that are thought to play a role in the development of the cancer.

"There have not been many studies done to assess if soy consumption can reduce prostate cancer risk, especially in younger men, when preventive strategies are of greatest value," she says.

Isoflavones are non-nutritive, naturally occurring plant chemicals found in high concentrations in soy. Although similar studies have made

the connection between soy and prostate cancer prevention before, this will be the first specifically targeting soy isoflavones. The research was born out of statistics revealing that prostate cancer is significantly lower in Asia than in North America. Researchers suggest that diet is one major cause for the discrepancy because Asian men regularly consume more soy than their western counterparts.

With one in nine Canadian men being diagnosed with prostate cancer each year and about 4,000 annual

deaths from the disease, Duncan wants to know exactly how soy isoflavones can affect serum hormones related to prostate cancer.

The 32-week study involves 36 healthy men between the ages of 20 and 40. Each subject is consuming three different study products—a high-soy isoflavone protein, a low-soy isoflavone protein and a milk protein—for eight weeks each, separated by four-week breaks. The products are in the form of protein powders that are mixed with water.

Throughout the product testing,

the researchers will collect blood, urine and semen samples, measure body weight and composition, and periodically monitor food intake through subject diet records. From urine samples, the researchers will be able to monitor the isoflavone level present in the body. They predict that as urinary isoflavones increase, serum hormones will decline.

This research is funded by the American Institute for Cancer Research.

BY LISA CAINES
SPARK PROGRAM

Award Recognizes Contributions of Marginal Farmers

Continued from page 1

problems, then try to import external solutions to help them," he says. "Our project looked at farmers as a source of solutions, as people who have the intelligence and the ability to solve many of their problems on their own through technological and institutional innovations, rather than just adopting externally developed solutions. We would scout out innovators, document their work, then help them add value to their innovations and improve efficiencies. Then we would disseminate this in-

formation across different languages, so these innovations could be adopted or could spur further innovations in other regions."

Patel notes that this project led to significant policy changes at the national level in India by establishing the National Innovation Foundation in 1999. "It was a very exciting learning experience for me."

Inspired both by the academics and the farmers he was working with, Patel decided to continue his education, this time focusing on the

social science aspects of natural resource management and rural development rather than the pure sciences. He chose Guelph's rural studies PhD program because of its interdisciplinary approach and its focus on sustainable rural communities and because of Humphries's well-known work with small farmers in Honduras.

Here at Guelph, Patel's focus has been on the conservation and sustainable use of the enormous local agrobiodiversity that exists in the

fields of small and marginal farmers in India and other parts of the gene-rich south. Because marginal farmers can earn higher returns by growing commercially preferred high-yielding crop varieties than by growing diverse but often lower-yielding local varieties, crop biodiversity is under serious threat in developing countries, he says.

"In India, we are really at a crossroads in this area. Farmers are keen to adopt new promising varieties, but if they do so, genetic diversity will be lost. I am not against farmers growing new varieties, but you need a balance for ensuring on-farm conservation to maintain a diverse gene pool. You never know what value a particular local variety may have in the future for ensuring global food security. And once it's lost, it may be lost forever."

In the past, it was thought that local varieties could easily be conserved in gene banks, he adds. "But now we realize there are a lot of limitations to this approach. When you take germplasm and put it in a gene bank, it gets isolated from the process of natural evolution that is in-

fluenced by the socio-cultural practices and preferences of farmers. In the field, it continues to evolve."

Patel's goal is to discover how to break the link between poverty and biodiversity, how to get marginal farmers to continue to grow local varieties and, at the same time, boost their incomes. He hopes to discover what incentives, whether material or non-material, could be designed to accomplish this.

"This could include compensating the opportunity costs that farmers forgo by growing local landraces, finding niche markets for local varieties and offering social recognition or ensuring intellectual property rights for the farmers involved."

For Patel, receiving the Vavilov-Frankel Fellowship confirms the importance of his collective work and represents recognition of the valuable contributions marginal farmers make to the conservation of genetic resources, as well as the value of interdisciplinary research.

"It also speaks highly of the international reputation of the University of Guelph," he says.

BY BARBARA CHANCE

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Plant Abundance Varies

Continued from page 1

They have 'escaped' their predators and come to foreign soil, where their predators have not had time to form."

The rate at which a plant grows also determines how it will respond to soil pathogens, the study found. Species that grow slowly allow pathogens to accumulate at a faster rate, which limits plant abundance. This gives faster-growing plants a competitive advantage because their pathogens take longer to develop, giving the plant a chance to multiply.

This is the first time scientific evidence has shown that interactions between plants and soil microbes is what determines the relative abundance of plants in natural communities. It explains why some plants are so rare in nature and others so abundant, accounting for about 60 per cent of plant diversification, Klironomos says.

"This study addresses an age-old question in ecology: How is it that in plant communities, more than one

species survives? In theory, the most competitive species should win out and we should be seeing monocultures out there. But plant communities are made up of different species with varying levels of abundance, and we have never really known why."

This theory has been applied for years in agricultural systems, he says. "It's the reason farmers do crop rotations. If you grow the same plant over and over again, it builds up pathogens, reducing its ability to grow. The same theory now applies to natural communities."

Understanding the mechanisms responsible for a natural plant abundance may lead to new approaches for the management of ecosystems, he adds.

"Most important, it may result in new ways to conserve rare and endangered species and to protect plant ecosystems from species invasions."

BY LORI BONA HUNT

Insect Study Revealing

Continued from page 1

Davis's other research subjects have included rats, sheep, seals, llamas, chickens, cows and rabbits, but he's always wanted to work with invertebrates. In fact, he believes the most intriguing scientific findings are generated from studies "where you're not working with warm, furry animals that can make eye contact with you."

"If I tell you my dog can tell the difference between you and me, it wouldn't be that impressive. But if I tell you that an invertebrate—a bug—can tell you from me, that's going to raise a lot of eyebrows. At the very least, I hope it makes someone stop and think before they put their big boot down on top of it."

BY LORI BONA HUNT

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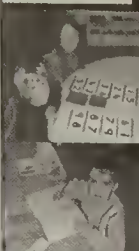
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Were the Good Old Days That Good?

Life in the 1800s was not simpler, easier or happier, says U of G historian

MANY OF US BELIEVE that life in the 1800s — because it was mostly rural — was simpler, more stable, kinder, happier even, when compared with today's fast-forward world of activity and consumerism.

This belief is so entrenched in our minds — *Little House on the Prairie*, anyone? — that over the past few years, a whole movement has developed around trying to get people back to those good old days.

Home-school your children, you're advised in books, magazines, newsletters and Web sites. Move to the country, sew your own clothes, grow your own food, barter for goods and spend less.

It sounds OK except for one thing, says Prof. Douglas McCalla, History, the recently appointed holder of a prestigious Canada Research Chair in Rural History. Research shows that those simpler, more traditional times never really existed. Although it's true that life today is more complex and fast-paced, life for early settlers was not simpler, easier or happier, he says.

"A lot of people today idealize rural society of the past. There's an awful lot of romantic imagery about self-sufficiency and self-reliance that doesn't adequately describe the way those societies worked, plus we tend to oversimplify those earlier times."

McCalla should know. He has spent most of a distinguished academic career studying Canada's rural history, mainly from an economic perspective.

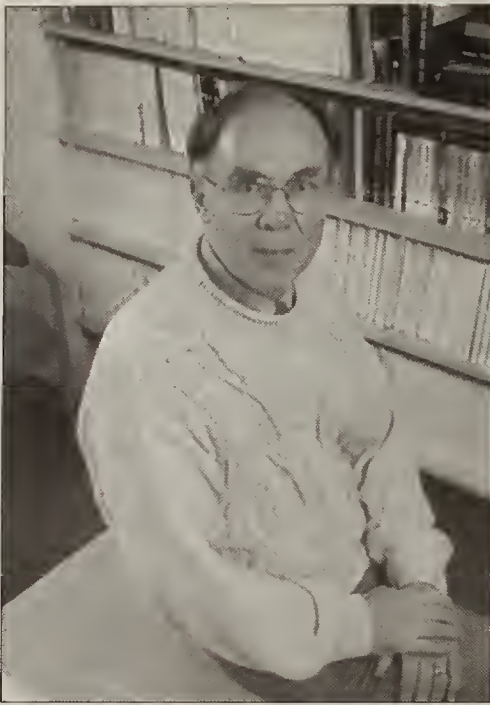
Originally from Edmonton, he holds degrees from Queen's University, the University of Toronto and Oxford University. He has served as editor of the Ontario series of the Champlain Society and of the *Canadian Historical Review*. He has also written and edited several influential books on economic and business history, notably the award-winning *Planting the Province: The Economic History of Upper Canada 1784-1870* and *Perspectives on Canadian Economic History*.

Through this work, McCalla has shown that Ontario's early economy was not primarily dependent on the exportation of natural resources such as fish, fur and wood, as previously believed. Instead, agriculture was the leading colonial economic activity, with farming itself — and rural economies — being much more intricate than ever imagined.

"The local exchange of goods and labour and the making and remaking of farms, families and communities were central to the economy in which most people lived," he says. "These people lived in a world of information, of prices, of wages and of hierarchies, and they had their strategies. These were not unsophisticated people or societies."

In recent years, McCalla has turned his attention to rural society in general, and it is this work that will be the focus of the rural studies chair announced last November by the federal government.

The historian, who spent the last



Prof. Douglas McCalla

PHOTO BY MARTIN SCHWALBE

three decades teaching at Trent University, was recruited to Guelph as part of an effort by the College of Arts to attract a scholar who would complement and enhance the University's already significant work in rural history.

"The appointment of Prof. McCalla, our first chair recruited externally, was a coup for us not only because of his outstanding career and reputation, but also because his work fits in so well with the University's emphasis on rural studies," says Prof. Deborah Stacey, assistant vice-president (infrastructure research programs). "His work will also greatly contribute to our strategic research themes of culture and society and communities and families."

College of Arts dean Jacqueline Murray adds that McCalla's presence on campus will boost Guelph's traditional strength in Canadian history. "And graduate students will have an unparalleled opportunity to study Canadian history and participate in the forefront of research in this area."

McCalla notes that much of recorded history, economic or otherwise, is derived from the writings and perspectives of leading officials and merchants, most of whom lived in cities. When one looks at the records left behind by ordinary farm and artisan families, who made up so much of the whole economy, a new and different picture emerges.

For example, he says, we envision early settlers living mainly in one place for generations because we think travel and resettlement before the advent of the motor vehicle were too time-consuming and onerous. But systematic examination of data such as the census shows that people did indeed move around and that

movement was very much a part of their lives.

"Farmers took their crops to market and people got around on horses, by water or on foot," says McCalla. "They sometimes walked distances we would never imagine walking."

Another common misconception is that women in Upper Canada spun and wove all their own cloth to make clothing for their families. According to records kept by country stores, many textiles for clothing were purchased rather than spun at home.

"Upper Canadian women bought a lot of cotton, which isn't surprising because it was the time of the Industrial Revolution and lots of cotton was being produced," says McCalla. "But the standard literature has them dressed in homespun. The truth is that women had better things to do with their time than to spend it making homespun linen; buying cotton was cheaper. Wool, however, was another matter."

Bartering is another often misunderstood notion of the past, he adds. When the farmer's wife needed cotton, she didn't barter an equivalent amount of butter for it at the local store. Instead, she bought cotton at a certain price when she needed it and sold butter to the storekeeper, for a price, when the store needed it.

"Money didn't necessarily exchange hands, but everything was given a monetary value, rather than being bartered," says McCalla. "And so a great deal of the market transactions of the early economy involved credit, not barter."

So much for the notion of credit being a relatively new market force.

At U of G, McCalla will be writing a comprehensive economic history of Canadian settlement from 1600 to 1939 and continuing his intensive

study of consumption and living standards in pioneer society from 1808 to 1861, based on the charge accounts of ordinary families at the country general store.

The work will be highly collaborative, with McCalla drawing from — and adding to — the work of other history faculty such as Prof. Catharine Wilson, who specializes in early farm tenancy and co-operative work; Prof. Terry Crowley, whose focus has been rural, agricultural and women's history; and Prof. Kevin James, a Scottish studies specialist. McCalla will also work closely with Prof. Kris Inwood, Economics.

"The findings of this work will likely challenge Canadians' sense of their economy's past (and perhaps present) by telling its history from the perspective of the agricultural heartland rather than the resource frontier," reads a Canada Research Chairs description of the proposed project. "The objective is to create a richer understanding of local economies and the ways in which they represented and shaped Canada's economic development."

McCalla himself says he hopes the work will accomplish two main things. First, he'd like to dispel myths and stop some of the false analogies some people draw from the past to try to elicit change today.

"Surprisingly enough, we often make decisions that involve some idealized image of the past to try to change the future," he says, citing as an example some of the debate surrounding the right to own firearms.

"I don't wish to get into an argument with people who are ardent believers in what firearms can mean to rural societies today, but what I found interesting was how powerful in their arguments was an image of how firearms were used by early settlers. In reality, many Upper Canadians never owned guns. During the rebellion of 1837, for example, many of the rebels didn't have guns at all."

The second — and perhaps most important — thing McCalla hopes to accomplish is to "catch a vision of history in which many people were actors." The usual view, he says, is that there were a few great leaders and a few great events.

"What I hope to foster and encourage is the vision that our past was not simple at all, but that it developed from the dynamics of everyday life, that ordinary families were central to it, that men, women and children made adjustments, developed new strategies and made tough decisions."

"Do the findings matter? I think they do. I think putting rural society, with its full weight, into the evolution of the larger history, which mostly has not been done, and trying to understand how rural society evolved are central questions for anyone interested in social and economic history. It is a particular opportunity to be able to pursue this work at the University of Guelph, where an abiding commitment to rural studies makes for a very supportive research environment."

BY SUZANNE SOTO

EVENTS

ARBORETUM

Naturalist Chris Earley presents "Introduction to Birds" June 5 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment deadline is May 22.

Horticulturist Henry Kock leads a garden history walk June 5 from 7 to 9 p.m. Cost is \$15. Registration and payment are due May 22.

CONFERENCE

Teaching Support Services, the McLaughlin Library and the Learning Commons are sponsoring a conference on "Fostering Academic Integrity: Challenges and Achievements at the University of Guelph" May 15. For more information or to register, visit the Web site www.tss.uoguelph.ca/tli.html.

NOTICE

The Stress Management and High Performance Clinic will hold classes in relaxation and stress management skills beginning May 21. Classes run Tuesday and Thursday at 8 to 9 p.m. in UC 441. Cost is \$40 for U of G students, \$60 for campus members of Steelworkers Local 4120 and \$120 for community members. For more details, call Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

THESIS DEFENCES

The final examination of PhD candidate Greg Steinberg, Human Biology and Nutritional Sciences, is May 13 at 9:30 a.m. in Animal Science and Nutrition 306. The thesis is "Acute and Chronic Effects of Leptin on Skeletal Muscle Fatty Acid Metabolism." The adviser is Prof. David Dyck.

The final examination of Steven Leech, an M.Sc. candidate in the Department of Animal and Poultry Science, is May 16 at 9 a.m. in Animal Science and Nutrition 141. The thesis is "Evaluation of and Alternative Methods for the Determination of Phytate Content in Ontario Corn and Soybean Samples." The adviser is Prof. Kees de Lange.

The final examination of PhD candidate Alessandro Alasia, Agricultural Economics and Business, is May 21 at 1 p.m. in Animal Science and Nutrition 141. The thesis is "An Assessment of Rural Development Policy Options in Mozambique." The adviser is Prof. Truman Phillips.

The final examination of Wijewickrama Abeyedera, a PhD candidate in the School of Rural Extension Studies, is May 23 at 9 a.m. in Animal Science and Nutrition 141. The thesis is "The Role of Social Capital in Collaborative Governmental and Non-Governmental Programs Focusing on Poverty Reduction in Sri Lanka." The adviser is Prof. Mark Waldron.



GUELPH

MAY 22, 2002
VOLUME 46, No. 10

WWW.UOGUELPH.CA/ATGUELPH • UNIVERSITY OF GUELPH

Campaign Launched at 71% of \$75-Million Target

U of G unveils its most ambitious fundraising endeavour ever

SHOWING their outstanding support for the vision and goals of U of G, members of the University community — faculty, staff, students, retirees, senators, governors and trustees — have collectively contributed \$4.6 million to *The Campaign for the University of Guelph*, which was launched publicly May 11 with an announcement that \$53.5 million of the \$75-million goal has already been raised.

Funds raised by the campus community will be used to support three goals: to continue to attract the finest students; to continue to attract and retain the most talented faculty and staff; and to provide students, faculty and staff with the best facilities in which to learn, conduct research, work and live.

The Campaign for the University of Guelph, U of G's most ambitious fundraising endeavour ever, was unveiled at a special luncheon attended by members of the University community, as well as members of Guelph's "extended family" of alumni, friends and external supporters.

These included campaign chair David Kassie, chair of CIBC World Markets; Board of Governors chair and campaign cabinet member Simon Cooper, president of the Ritz-Carlton Hotel Company; and chancellor Lincoln Alexander. (See pages 6 and 7 for photos of the event.)

"This campaign will enable Guelph to sustain its excellent reputation and to carry on its proud legacy of teaching and research that make a difference in the world," said president Mordechai Rozanski at the launch. "The campaign is about 'The Science of Life and the Art of Living'



Graduating fine art student Rebecca Wood poses in front of the College of Arts campaign banner bearing her photo. Similar banners for each of Guelph's colleges are prominently displayed across campus to mark the official launch of *The Campaign for the University of Guelph*.

PHOTO BY MARTIN SCHWALBE

and advances our vision, which seeks to make Guelph a global leader in a world of new knowledge and perpetual innovation."

Kassie paid special tribute to Guelph students for their support of the campaign. Students have contributed \$1.3 million towards building the Gryphon Dome and another \$600,000 to establish an endowment

that will support students in need.

"I commend the students for their initiative, their commitment and their passion for the future," said Kassie. "They are our next generation of leaders and our hope for the future."

The campaign's official launch brings public recognition to a fundraising effort that began with a \$1-

million gift from Peter and Sandra Hannam. As of May 11, the total of gifts and pledges had reached more than 71 per cent of the target.

Other significant gifts announced at the launch were:

- \$2 million from George Jackowski, parent of U of G student Rachel Jackowski and chair, director and chief scientific officer of SYN-X Pharma Inc., to fund innovative research in life sciences and other new immunological technologies;
- \$1.8 million from Dairy Farmers of Ontario supporting numerous dairy research projects;
- \$1 million from the Canadian Imperial Bank of Commerce towards the new science complex;
- \$1 million from Anne and Bill Brock, chair of the board of U of G's Heritage Trust, for the establishment of a major new doctoral-level scholarship;
- \$750,000 from the Scottish Studies Foundation towards the creation of a Chair in Scottish Studies, the first such chair in North America;
- \$500,000 from the U of G Alumni Association towards the new classroom complex;
- \$450,000 from a fundraising event that created an endowment for the Lincoln Alexander Chancellor's Scholarships, which are dedicated to student accessibility and diversity;
- \$250,000 from Novartis Animal Health in support of the Ontario Veterinary College's Small-Animal Clinic; and
- \$100,000 from Cooper towards the expansion and renovation of

the teaching restaurant in the School of Hotel and Food Administration.

Rob McLaughlin, vice-president (alumni affairs and development), said after the launch that the campaign will now kick into high gear.

"Not only will we continue to work on securing more six- and seven-figure gifts for our campaign priority projects, but we will also begin to approach our alumni, friends and student parents for their support. In the fall, you can expect that our Annual Fund appeals will have a campaign focus and that class reunion committees will be encouraging their classmates to support the science and classroom complexes, the School of Hotel and Food Administration expansion, the Scottish Studies Chair and student scholarships, among other projects."

McLaughlin also noted that there will be more gift announcements in the months ahead.

"There were a dozen gifts announced at the launch. We believe we will have at least that many more to announce in 2002. Campaign momentum is building, and we intend to sustain that intensity and excitement to our goal and beyond."

Rozanski added that he fully expects the University to achieve its \$75-million target in the next year and perhaps exceed it.

"I congratulate and thank all members of the U of G community, as well as our generous donors and volunteers, for their tremendous support of this great university and its bright future," he said.

For more information about the campaign, visit the Web site www.Uoguelph.ca/campaign.

BY SUZANNE SOTO

Thornbrough Addition Wins National Award

Medal recognizes outstanding achievement by a Canadian architect

THE ALBERT A. Thornbrough Building addition has received a 2002 Governor General's Medal in Architecture.

The 35,000-square-foot addition, which opened in September 2000 and was designed by Toronto architect Stephen Teeple, was one of 12 buildings honoured. Medals will be presented to the architects of the winning projects May 23 by Governor General Adrienne Clarkson.

"We are very pleased that our state-of-the-art engineering and

computing centre has received this prestigious award," says provost Alastair Summerlee. "It is an honour for the architect and for our entire University community, which was involved in the addition's design. It emphasizes functional space both within and around the building and provides a physical link between our engineering and computing and information sciences programs, allowing us to capitalize on existing and potential synergies."

The Thornbrough addition en-

abled the University to more than double its undergraduate enrolment and double its graduate enrolment in a range of high-demand, innovative programs in biological and environmental engineering and advanced computing. The two-storey structure houses high-tech computer facilities, laboratories and a lecture theatre and is adjacent to outdoor courtyard spaces. The building was supported by a \$9.4-million investment from the Ministry of Training, Colleges and Univer-

sities through its Access to Opportunities Program and from Hewlett-Packard (Canada) Ltd.

The Governor General's Medals in Architecture were created by the Royal Architectural Institute of Canada, which represents some 3,000 architects in Canada. The medals recognize outstanding achievement in recently built projects by Canadian architects. The awards are jointly administered with the Canada Council for the Arts, which oversees more than 100 prizes and

fellowships in the arts, humanities, social sciences, natural sciences, health and engineering.

The Thornbrough Building, first opened in June of 1973, was named in honour of Albert A. Thornbrough, then vice-chair of the University's Board of Governors and president of Massey Ferguson Ltd., who donated a significant portion of the funding for the construction of the original building.

BY LORI BONA HUNT



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SENATE REPORT

Government's Support for Post-Secondary Education Heartening

PRESIDENT MORDECHAI ROZANSKI told the May 14 meeting of Senate that Ontario universities were heartened by the provincial government's expression of support for post-secondary education shown in the May 9 speech from the throne.

The speech, and comments made to the press the day after by Dianne Cunningham, minister of training, colleges and universities, reaffirmed the government's commitment to providing further resources to help

universities accommodate higher-than-expected student demand, Rozanski said. The speech also indicated that both the Ontario Student Opportunity Trust Fund for students in financial need and the Learning Opportunities Program for students with learning disabilities would be enhanced. The president added that Ontario universities would continue their advocacy efforts to improve quality in the system and address the issue of deferred maintenance.

U of G itself had good news to report, the president added. On May 11, the University publicly launched its \$75-million fundraising campaign — whose theme is "The Science of Life and the Art of Living" — with the great news that the campaign has already raised 71 per cent of its target (see story on page 1).

The president said he was also pleased to report that construction is going well on U of G's new classroom complex and the University of Guelph-Humber building in Etobicoke, and that the new science complex is coming up for approval at the next Board of Governors meeting.

"News about the province's additional funding in support of growth has given us the confidence we were seeking to move forward with our multi-year enrolment plan, both at the Guelph campus and the University of Guelph-Humber," he said.

campuses to enhance skills training of students in the agriculture and food sectors. The new network would eliminate duplication of offerings among OAC and its satellite campuses, increase opportunities for academically qualified students at any campus to transfer from the associate diploma to the degree programs, align and localize teaching with research strengths, and offer new and targeted diplomas in a number of areas, including turf and landscape management and food nutrition and risk. (Watch for a report on OAC's strategic plan in an upcoming issue of @Guelph.)

In the B.Comm. program, Senate endorsed two articulation agreements between the School of Hotel and Food Administration and Loyalist College in Belleville, Ont., and the Atlantic Tourism and Hospitality Institute in Charlottetown, P.E.I.

NAME CHANGE FOR SCHOOL

Senators gave the go-ahead to a motion to change the name of the School of Hotel and Food Administration. It will now be known as the School of Hospitality and Tourism Management, to better reflect the current and future direction for the school and to position it more

strongly in the academic community.

Senate also approved the restructuring of the College Faculty of Environmental Design and Rural Development. This academic unit will also have a new name — the School of Environmental Design and Rural Development.

Tuition fee recommendations for the University of Guelph-Humber and the OAC diploma programs at the agricultural colleges were also passed. The annual fees for Guelph-Humber — ranging from \$4,506 for arts students to \$4,917 for those in computer science — are based on a balance of the costs of program delivery, competitiveness with other tuition fees in the Greater Toronto Area and comparison with other university programs. These will be the rates charged to the first students admitted to the new Guelph-Humber programs this September.

Students in the OAC diploma programs at Alfred, Ridgetown and Kemptville will see their annual fees rise by two per cent or \$41 to \$1,052.75 in the 2002/03 academic year, reflecting similar increases already approved for diploma and undergraduate degree programs on the main U of G campus.

APPOINTMENTS

Christopher Brown of the College of Veterinary Medicine at Iowa State University has been appointed chair of the Department of Clinical Studies, effective Aug. 1.

Karyn Freedman of the University of Toronto will join the Department of Philosophy as an assistant professor July 1.

Prof. Michael Hoy will serve as acting chair of the Department of Economics from May 24, 2002, to June 30, 2003.

Prof. Patrick Holland, Literatures and Performance Studies in English, has been named acting associate dean of arts and social sciences effective May 1 to Dec. 31, 2002.

Edward Jones-Inhotep of the Institute for the History and Philosophy of Sciences and Technology at the University of Toronto will join the departments of History and Philosophy as an assistant professor July 1.

Prof. Vinay Kanetkar will serve as acting chair of the Department of Consumer Studies until Aug. 21, 2002.

Prof. Gerald Manning, Literatures and Performance Studies in English, has been named assistant dean of arts (Guelph-Humber), from May 1, 2002, to June 30, 2004.

Jennifer Schacker of Toronto has been appointed assistant professor in the School of Literatures

and Performance Studies in English, effective July 1.

Patricia Sheridan of the University of Western Ontario will join the Department of Philosophy as an assistant professor July 1.

Jayasankar Subramanian of the University of Florida has been appointed assistant professor in the Department of Plant Agriculture, effective Aug. 15.

Patricia Turner of Burlington will join the Department of Pathobiology as an associate professor June 3.

Ellen Waterman of Trent University has been appointed assistant professor in the School of Fine Art and Music, effective July 1.

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UNIVERSITY OF GUELPH

ROZANSKI TO HEAD EDUCATION TASK FORCE

President Mordechai Rozanski has been named head of the Education Equality Task Force, which will review the funding formula for Ontario's public schools. The appointment was announced in the May 9 speech from the throne read by the lieutenant-governor on behalf of Premier Ernie Eves. The task force will make recommendations on improving funding fairness, certainty and stability for schools and students and is slated to submit its report by Nov. 1. Rozanski is also chair of the Council of Ontario Universities.

CONFERENCE TO FOCUS ON GLOBAL ACTION, CHANGE

The Participatory Development Forum will hold a conference on "Participation for Global Action and Change" July 29 to Aug. 2 on campus. It will feature keynote panels, capacity-building workshops, group discussions, debates and popular theatre. For more information or to register for the conference, visit the Web site www.pdforum.org/conference.

LAB SERVICES HOSTS BUSINESS COMMUNITY

Laboratory Services hosted a reception and tour for the Guelph Chamber of Commerce April 23, as part of the chamber's "Business After 5" program. The program's goal is to introduce the business community to the various organizations that operate in and around Guelph. More than 70 business people attended the event, which included a tour of the Dairy Regulatory Lab, the Food Microbiology Lab and the Analytical Microscopy Lab. The tours were supplemented with displays illustrating how Lab Services uses technology to solve everyday problems.

TAKE THE CANADIAN COMMUTER CHALLENGE

During Environment Week June 2 to 8, cities across Canada will be competing in the Commuter Challenge to see which one can cut its air pollution the most by using active and sustainable transportation. City residents make a commitment to walk, jog, cycle, take the bus or carpool, then report their activity. For more information, visit the Web site www.commuterchallenge.ca or contact Raj Gill at 821-2641, 824-2091 or raj@thegreenpages.ca.

ANNUAL SPEED RIVER CLEANUP JUNE 1

OPIRG-Guelph will stage its 23rd annual Speed River Cleanup June 1 (rain date June 8). Participants should meet at Royal City Park at 9:30 a.m. A free barbecue for volunteers will follow. OPIRG and the Boathouse on Gordon Street will host a community appreciation night June 5 at 8 p.m., featuring a talk by environmental activist Evan Ferrari. For more details, call 824-2091.

Bridging the Gap

Innovative summer semester allows MBA students to brush up on their skills

GUELPH'S MASTER of business administration in agribusiness program has introduced an innovative "bridging" semester that will allow some students to brush up on their business skills ahead of the official start of classes in September.

The new summer semester, which began earlier this month with a total of 14 students, is "tailor-made to provide basic business tools to scientists and other applicants who often have graduate degrees in their discipline but don't have a great deal of formal business training," says Prof. Francesco Braga, Agricultural Economics and Business, coordinator of the MBA (Ag.Bus.) program.

About 70 per cent of the students who take the program come from science-based backgrounds, he adds.

"The objective is to 'bridge' their scientific background and the forthcoming agribusiness training and provide them with the tools to be as productive as possible in the subsequent semesters of the MBA."

The specific courses taken by each student in the bridging semester depend on their individual needs, but typically include accounting and economics. Other students are auditing graduate-level courses in various disciplines as refreshers after a long hiatus from school.

Courses in English as a second language, offered through the Office of Open Learning and completed before enrolment in the bridging semester, are an option for some students who could benefit from brushing up on their conversation skills and the agribusiness vernacular.

The individual roster of courses each student takes is discussed during the interview process for program applicants and becomes a condition of the offer of acceptance.

"We try to be proactive in addressing students' needs," Braga says. "We don't want to reject promising people who may come from diverse backgrounds. We want to develop their business skills. We care about their progress, so we advise them to come to Guelph earlier."

Student Andrea Oliver, who has a degree in computer science and chemistry from a university in her native Jamaica, is taking financial accounting and managerial accounting, as well as a microeconomic course offered through the Office of Open Learning.

She comes from a family with deep agribusiness ties — her parents run a major coffee plantation that's been in the family for generations. After graduating from university, she worked at the Agricultural Credit Bank in Jamaica. Since immigrating to Canada five years ago, she has been employed as a computer application developer by the Ontario government's Management Board Secretariat (MBS). Her employer granted her a leave of absence to pursue the MBA.

Oliver calls the program "a natural fit" with both her background and her career goal of moving into



Prof. Francesco Braga, far right, poses with students in the new "bridging" semester for the MBA in agribusiness program.

PHOTO BY MARTIN SCHWALBE

MBS's land and resources division.

She says the bridging semester is a "welcome opportunity" to expand her business skills and make the transition to academic learning mode before plunging into the formal MBA program.

Only a couple of days into the bridging semester, she's discovered "there's a big difference between going to work and having to memorize and think from a purely academic point of view."

Another student, Nazim Baluch, has been out of school since 1968 and has worked full time for the last 10 years at Canadian Tire as a maintenance team leader. He is trained as a fluid power technician and a mechanical engineer, but his career ambitions include starting a business in the organic agriculture industry.

Baluch, who was born and lived in the Middle East most of his life, is auditing a post-graduate course in agricultural market analysis as well as taking courses in accounting and microeconomics.

He agrees that it's beneficial to get a feel for academic life again after so many years in the working world. "It's stuff I had taken a long time ago, but it's coming back to me so fast," he says, already praising his instructors for their "clear way of explaining" the course material.

A third student, Muhammad Ararat, has seven years of experience in the food industry in Pakistan, where he worked as a quality assurance manager for both a juice exporter and a snack food company.

When he arrived in Canada as a landed immigrant a year ago, he took a job with a temp agency that supplies general and technical labour to factories, a job he has since left to start the MBA.

Like Oliver, he is taking courses in financial and managerial accounting and economics. The MBA, he believes, is the ticket to a better career in the Canadian food industry.

He also sees his experience at Guelph as "another opportunity to gain an understanding of other people and the language and culture."

Braga agrees that students in the MBA program benefit from interaction with fellow students from a diversity of backgrounds and cultures. He estimates that two-thirds of the MBA class were either born or trained abroad, with many students coming from China, Latin America, India, Pakistan and Europe.

"They bring all kinds of different perspectives. At the beginning, the students find it takes a little bit to get to know each other's culture and customs. But soon, they find the debate and discussion becomes very interesting, very alive."

Normally, about 18 students enrol in the MBA (Ag.Bus.) program each year. This year's intake is expected to total 25 in September, making it the largest class ever for the seven-year-old program.

For more information about the program, contact Braga at Ext. 2763 or fbraga@uoguelph.ca.

BY STACEY CURRY GUNN

PEOPLE

ECONOMIST TO PRESENT BRIEF

Prof. Brian Ferguson, Economics, will be a witness at the May 30 meeting of the Canadian Senate's Standing Committee on Social Affairs, Science and Technology. The committee's agenda is "The State of the Health-Care System in Canada."

ENGLISH PROF GIVES TALKS

Prof. Donna Palmateer Pennee, Literatures and Performance Studies in English, presented papers on literary citizenship, cultural nationalism and globalization studies at the universities of Silesia (Poland), Toronto and Ottawa this spring. These papers join earlier reports of her research on "The State of Culture and the Culture of State" delivered at the universities of Edinburgh, Wollongong, Alberta and Brock and the Hebrew University of Jerusalem.

THEY ARE THE CHAMPIONS!

The School of Rural Planning and Development's student evaluation team won the 2002 Canadian Evaluation Society Case Competition in Halifax, beating out teams from Saskatchewan and Newfoundland. This is the school's third win in five years. Supervised by Prof. Harry Cummings, the team consisted of captain Linda Beyer, Lisa Hardess, Valerie Leinan, Christine O'Malley and Sarah Parkinson.

EXPERT PANEL APPOINTED

Prof. Spencer Henson, Agricultural Economics and Business and Consumer Studies, is one of eight members of an international expert panel reviewing Codex Alimentarius, an organization that sets world standards for food safety and quality.

VAUGHAN MEDAL ANNOUNCED

Graduating biomedical sciences student Vance McPherson is this year's winner of the Waller Vaughan Medal. Named for a former secretary of Senate, the medal recognizes the contributions of a student member of Senate.

CBIE AWARDS GRANT

Cathy Hardman, a fourth-year student in European studies, has received an international learning grant from the Canadian Bureau for International Education to do a study-abroad semester in Spain.

KUDOS FOR PUBLIC SPEAKING

Ridgetown College student Ashley Brander captured first place in the eighth annual public-speaking competition sponsored by the Canadian Association of Diploma in Agricultural Programs.

CIDA CONFERENCE EXPLORES CANADA-AFRICA PARTNERSHIP

Prof. Jim Shute, director of the Centre for International Programs, represented U of G at the recent conference of African and Canadian civil society organizations in Montreal. Sponsored by the Canadian International Development Agency, the conference brought together more than 500 Africans and Canadians to discuss the New Partnership for Africa's Development.

TOWARD 2010



Harald Bauder



Marc Coppolino



Todd Mattina



Manish Raizada



Wanhong Yang

PHOTOS BY MARTIN SCHWABE

Editor's note: This is the last group of newly appointed faculty to be featured in this column for this academic year. More new appointments will be published in the fall.

HARALD BAUDER

Assistant professor, Geography

Background: BA and MA, Wayne State University; PhD, Wilfrid Laurier University

Teaching objectives: To provide students with a sound foundation of geographical knowledge, to challenge them to think critically and to prepare them for professional and academic careers.

Research objectives: I examine how new immigrants of different ethnicity integrate into the Canadian labour market, what barriers they confront and what resources they mobilize. I will expand this research to a German context.

Attraction to U of G: I like the city of Guelph. It's a community of people who are very supportive of one another, and the University is a good place to continue my research on "people" geography. (And Wellington Pale Ale, of course!)

MARC COPPOLINO

Assistant professor, Chemistry and Biochemistry

Background: B.Sc., University of Waterloo; M.Sc. and PhD, University of Toronto

Teaching objectives: To generate and support an enthusiastic examination of the principles and uses of biochemistry and cell biology.

Research objectives: To establish a

research program that will reveal the molecular mechanisms controlling cell movement. Involving both biochemistry and cell biology, these studies will improve our understanding of the cellular interactions within multicellular organisms.

Attraction to U of G: The University's commitment to research and its focus on life sciences.

DAVID KELTON

(no photo available)

Associate professor, Population Medicine

Background: DVM, M.Sc. and PhD, University of Guelph

Teaching objectives: I teach dairy health management and epidemiology at the undergraduate, graduate and post-graduate levels. My objectives are: to stimulate learner interest in a range of subject areas where there may or may not have been an interest previously; to provide a solid foundation of facts and background material to allow learners to build their knowledge and understanding of a given topic; and to facilitate the exchange of ideas and opinions, especially in topic areas where there is controversy or a lack of consensus of opinion.

Research objectives: To carry out applied, field-based animal health research to address questions and concerns of practical and economic importance to the agricultural industries of Ontario. Current areas of research include determinants of mastitis and metabolic disease in dairy herds, and disease surveillance systems for large dairy cattle populations.

Attraction to U of G: I have held a contractually limited faculty appointment at the University since 1995. I welcomed the opportunity to move to a permanent position because the Ontario Veterinary College has an outstanding international reputation as a leader in the areas of veterinary epidemiology and dairy production medicine.

TODD MATTINA

Assistant professor, Economics

Background: BA, Queen's University; MA, University of British Columbia; PhD (candidate), Queen's

Teaching objectives: To expose students to a range of contemporary policy issues that can be evaluated through the lens of economic analysis. In this manner, students will link current applications to the theoretical tools developed through coursework.

Research objectives: Studying international relative prices, the exchange rate and financial risk management. In particular, I study the relationships among the dynamics of the exchange rate, corporate pricing strategies and exposure to foreign exchange risk.

Attraction to U of G: The University offers a supportive research environment, an active learning community and a close proximity to other research-oriented universities. These complementary characteristics offer an exciting opportunity for junior faculty to excel at both research and teaching.

CHARLIE OBIMBO

(no photo available)

Assistant professor, Computing and Information Science

Background: M.Sc. (computing science and engineering), Kiev Institute of Civil Aviation Engineers; PhD, University of New Brunswick

Teaching objectives: Training students in an interactive manner to think for themselves and to be able to determine how to program computers efficiently and create programs that are user-friendly.

Research objectives: To address the issue of applications of inference mechanisms in semantic webs, multi-agent systems, query systems in e-commerce, games and database query optimization.

Attraction to U of G: Its excellence in teaching and research, as reflected by its position in the *Maclean's* rankings over the last few years.

MANISH RAIZADA

Assistant professor, Crop Genomics Laboratory, Plant Agriculture

Background: B.Sc. (genetics), University of Western Ontario; PhD (plant molecular genetics), Stanford University

Teaching objectives: First, I want to broaden the horizons of students and help them believe they can do anything in life they wish to do, no matter how unrealistic it might seem. Second, I want to teach them to question the world around them, to view it with skepticism and to examine the truth that often lies beneath the surface.

Research objectives: To help define

the functions of plant genes, to help determine how the environment influences how gene-encoded proteins interact with one another, in order to understand how the environment influences how a plant grows and develops. My laboratory is also interested in developing new molecular technologies in these areas (genomics and proteomics).

Attraction to U of G: Guelph is a premier plant biology-intensive university where I will have the colleagues and facilities to carry on my research. It also attracts high-quality motivated undergraduates, making teaching more rewarding.

WANHONG YANG

Assistant professor, Geography

Background: B.Sc., Hubei University, China; M.Sc. (regional planning), Chinese Academy of Sciences; PhD (environmental and resource economics), University of Illinois at Urbana-Champaign

Teaching objectives: To develop students' critical and creative thinking in geographical information systems (GIS) and resource management, and to nurture students' commitment to lifelong learning.

Research objectives: Watershed management and GIS applications with a focus on integrating economic, hydrologic and GIS modelling in solving resource use conflicts.

Attraction to U of G: The reputation of the Geography Department in resource management, environmental analysis, and excellent opportunities for research collaboration and teaching.

U of G Offers New Diploma in Leadership

SOME PEOPLE maintain that great leaders are born. But U of G educators contend that it takes more than innate ability and they've designed a new diploma program to teach the knowledge, skills and confidence that leadership requires.

"Great leaders are made," says Prof. Alun Joseph, dean of the College of Social and Applied Human Sciences, who helped create the diploma in leadership program with the Office of Open Learning. "And in an era of constant change and limited resources, organizations need leaders with vision, integrity, creativity and commitment."

The five-course program, which starts in July, is aimed at mid-career professionals, says Virginia Gray, director of the Office of Open

Learning. "The program will focus on the challenges facing leaders in the public, private and non-profit sectors, with an emphasis on the interaction between and interdependency of these spheres in the contemporary world."

The program will also bring together a collection of professionals with diverse experiences and outlooks, Gray adds.

"By fostering this interaction and exchange of perspectives and knowledge, it will provide a unique opportunity for participants to enhance their understanding of the issues faced by a range of organizations and their leaders."

The program was designed to minimize disruption to work. Classes will be conducted online, with a one-week intensive residential session held on campus during the summer.

"This is an excellent educational opportu-

nity that incorporates learning and work experiences and accommodates the schedules of professional employees," says Prof. John Walsh, associate dean of the Faculty of Management and a member of the leadership team. "It is about creating leaders who will make a difference."

The five courses will explore the foundations, theory, ethics, organizational change and decision-making involved in leadership. The diploma program will draw on the strengths of the University's existing programs, particularly political science, psychology and sociology and anthropology.

"One of the unique aspects of this is that it's rooted in the social sciences," says Prof. Maureen Mancuso, associate vice-president (academic), who helped design the program.

"It's a broad approach to the study of leadership, is inclusive and all-encompassing and is not limited to one particular field. We believe this will make the program richer and more rewarding for participants."

U of G will officially launch the diploma program July 8. The 2002 Recognition of Leadership Conference, which runs July 11 to 13, will form part of the first course in the diploma program. People not enrolling in the diploma program can also register for the conference.

For more information about the diploma in leadership program, contact Prof. Michael Cox at Ext. 6597 or mcox@uoguelph.ca. For all other inquiries, contact Rick Nigol in the Office of Open Learning at Ext. 6777 or rnigol@open.uoguelph.ca.

BY LORI BONA HUNT

Co-op Education a Win-Win Situation

Students acquire work and life skills, employers get academically strong and motivated employees

HAD IT NOT BEEN for his co-operative education experience at U of G in the early 1990s, it's possible John Cranfield might not be an assistant professor at Guelph today.

Cranfield, recently recruited by the Department of Agricultural Economics and Business, credits a co-op term at Agriculture and Agri-Food Canada in Ottawa for getting him to think about continuing his education beyond a B.Sc. in agricultural economics.

"During my second and third co-op work terms, which I did back to back over an eight-month period in 1992, I worked on my first real project, something that was truly mine and that taught me some very valuable lessons," Cranfield recalls.

"I studied structure issues in the Canadian meat-packing industry, and when I was finished, I got some really good feedback. I also saw what working on a long-term project was like. I started talking to some professors here at Guelph about it and they said to me: 'Oh, that's like being a grad student.' So, in many ways, my being in co-op was one of the factors that motivated me to get a graduate degree."

Which was actually a bit of an irony because, Cranfield says, he applied for U of G's co-op program on a whim.

"My brother, Eric, was going through co-op here in computing science, so I knew it was a good thing to do and decided to give it a try. In the end, it worked out very well for me and for him. Eric did all his co-op work terms at IBM in Toronto, and now he works for the company in the downtown Toronto office."

John Cranfield earned his master's degree in agricultural economics at Guelph and his PhD at Purdue University in 1999. After graduating, he taught for two years at the University of Manitoba before returning to his alma mater.

"I now run into U of G students who are in co-op and they ask me what I think of it," he says. "To me, co-op is a great way for students to put classroom theories and concepts into practice and for industry to see what students are capable of. It really builds good bridges between academia and industry."

Dwayne Barber, an associate professor in the Department of Medical Biophysics at the University of Toronto and a scientist at the Ontario Cancer Institute/Princess Margaret Hospital, had a similarly positive experience with co-op education at Guelph.

Barber, who graduated in 1985 with a B.Sc. in applied chemistry, had four co-op placements in three different locations as an undergraduate — the Weston Research Centre in Toronto, the National Research Council in Ottawa and the Connaught Research Institute in Toronto.

"I was fortunate to have four work terms that were research-related," he says. "That certainly sealed my interest in research. I then went on to do my PhD in biochemis-



Co-op education inspired Prof. John Cranfield to go on to graduate school after earning his Guelph B.Sc. PHOTO BY MARTIN SCHWALBE

try at the University of Alberta and to Harvard Medical School for my post-doc training."

Barber says since he's had his own laboratory at the Ontario Cancer Institute, he in turn has hired co-op students from Guelph.

"Essentially, I think undergraduate education at Guelph is very strong, and for the students who come through co-op, because they have to write a report at the end of their terms, the stakes are a bit higher. So I find that Guelph students put a little bit more into their work and they get a lot more out of it."

U of G has been facilitating student learning and career development through co-op placements with employers for more than 20 years.

"The program began in 1981 with 22 students," says Karen Reimer, manager of Co-operative Education Services (CES). "Since then, we've had 1,404 graduates."

The University has also become a recognized leader in post-secondary co-operative education in the province, she adds. With more than 1,400 co-op students today and about 600 entering the program each year,

co-op's many benefits.

"It's a win-win situation. Students acquire work and life skills, and employers can hire academically strong and motivated employees to complete all sorts of projects and tasks. In fact, in many cases, co-op becomes a recruitment tool for companies. So it really is a great partnership."

Currently, U of G offers co-op work terms in seven academic areas: B.Sc. (Technology), environmental sciences, engineering, physical sciences, commerce, biological sciences and social and applied human sciences. Some of the programs with co-op placements — such as water resources engineering, food science and child studies — are unique in Ontario.

Another important component of a co-op education at Guelph is that all participating students must complete an introductory class that helps them develop the tools and skills they'll need to obtain a job. This includes professional self-assessment, résumé and cover letter writing, interview skills and job search techniques.

The co-op program is also teamed with the University's peer helper program, which hires senior co-op students to help junior co-op students develop the above skills.

"Using senior co-op students to enrich the whole co-op experience is unique to Guelph," says Reimer. "As a result, our program is known for its high quality."

And, as Barber noted, all Guelph co-op students must write a report at the end of their co-op terms. This report is submitted to the co-op faculty adviser within the student's department for evaluation and grading. That mark is recorded on each student's transcript, as is his or

her work performance evaluation grade.

To ease the placement of students into the workforce, CES operates a "quick and efficient continual employment process," says Reimer. Prospective employers can interview U of G students, make a job offer and have their selection confirmed in as little as two business days.

Co-op students are available beginning January, May or September, and work terms can be as long as 12 months. Students earn well above minimum wage — CES provides employers with salary ranges appropriate to the students' skills and experience and based on current economic conditions. Employers are also eligible for a refundable tax credit for hiring students enrolled in a recognized Ontario post-secondary co-op education program.

After a student has been placed, CES continues to actively monitor the work term. Co-op co-ordinators visit students and supervisors on site to discuss student skill development and additional co-op requirements. CES staff are also available at any time during the work term to respond to employer or student inquiries.

The system works — and co-op has been so successful at Guelph — for two main reasons, says Reimer.

"First, because we've had some outstanding students like Profs. Cranfield and Barber over the years take part in co-op. Second, our employers have also been among the best. Our top employers ensure that co-op students are challenged through a variety of projects and that students come away with the experience, skills and knowledge necessary to become successful in the workplace today and in the future."

BY SUZANNE SOTO

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the campaign for the



The Campaign for the University of Guelph got off to a rousing start May 11 with an official launch event for members and friends of the University. At centre top, president Mordechai Rozanski, left, and Rob McLaughlin, vice-president (alumni affairs and development), are greeted with confetti after announcing that the campaign is already at 71 per cent of its \$75-million goal. Pictured at left, counterclockwise from top, are: Rozanski with Board of Governors chair and campaign cabinet member Simon Cooper, left, and campaign chair David Kassie; Jim Weeden, president of the U of G Alumni Association; Guelph Mayor Karen Farbridge with her husband, Peter Cameron; Todd Schenk, student co-chair of the campus community campaign; and chancellor Lincoln Alexander. Pictured at centre, near right, are George Jackowski, chair, director and chief scientific officer of SYN-X Pharma Inc., with his daughter, Rachelle, a biomedical sciences student at Guelph. At centre far right, delighting in the confetti, are Wyatt and Austin Jackowski, sons of George and his wife, Janice.



University of Guelph



Pictured at right, clockwise from top, are Anne and Bill Brock, chair of the board of U of G's Heritage Trust, with former Board of Governors chair Ken Murray and his grandson Andrew Harwood; B of G vice-chair Douglas Derry; former U of G president Bill Winegard; Sandra and Peter Hannam with Bonnie Rozanski and the president; and McLaughlin with Andy McCausland, director of sales for Novartis Animal Health Canada. At centre bottom, from left, are Alan McKenzie, treasurer of the Scottish Studies Foundation; retired Guelph zoology professor Mary Beverley-Burton, retiree co-chair of the campus community campaign; and Gordon Coukell, chair of the Dairy Farmers of Ontario.

PHOTOS BY MARTIN SCHWALBE



LETTERS

UNITED WAY DONATIONS DEMONSTRATE SUPPORT FOR COMMUNITY

Thanks to you, there is a way.

Thanks to the generous donations of U of G staff, faculty, retirees and students, a record \$268,287 was raised for the United Way in 2001. This is an outstanding achievement that truly demonstrates the support for the betterment of our community through the United Way.

In 2002, United Way Community Services of Guelph and Wellington is funding 105 programs through 48 agencies that provide services in our community to meet the needs of children and youth, individuals and families, and seniors.

The United Way was able to increase support to the Change Now Youth Drop-In and Resource Centre to \$81,000 through innovation/critical social issues funding. This funding increase is supporting the development of the new Change Now Overnight Youth Shelter program for the emerging needs of homeless youth in Wellington County. The shelter is scheduled to open this summer. Through this program, homeless youth will have the opportunity to access shelter, food, clothing, showers, counselling and health support services. (The co-ordinators of Change Now, by the way, are both U of G graduates — Janet Allen and Sabina Chatterjee.)

In addition to providing funding for emerging community needs, United Way staff partnered with community organizations and representatives to develop a community-based plan, through the National Housing Initiative, that identifies homelessness and housing priorities in Guelph and Wellington County. As a result, the community has been able to co-ordinate its efforts to deliver needed services through local strategies to reduce and alleviate homelessness in Guelph and Wellington.

As we embark on another year, we are pleased to announce that Toni Pellizzari, executive secretary to the dean of the College of Biologi-

cal Science, has been appointed by the president to co-chair the 2002 United Way campaign with Prof. Bev Kay, Land Resource Science, who co-chaired the 2001 campaign.

Allison Haskins-Brown
United Way Community Services
of Guelph and Wellington

KNOWING GAMBLING ODDS IS NO SOLUTION

In his letter of May 8, Prof. David Josephy, Chemistry and Biochemistry, proposes that casinos "be required to inform all gamblers of the true odds of each game" and to explain to them the gamblers' fallacy. But as undergraduate students of cognitive psychology know, human decision-making under conditions of uncertainty does not accord well with expected utility theory.

Rather, people tend to rely on a set of heuristics and biases that lead to the neglect of base-rate information. Moreover, gambling behaviour is governed not only by reflective mental processes but also by impulsive mental processes. What Prof. Karen Finlay, Vinay Kanetkar and I are exploring is whether the physical design of the casino environment interacts with variation in human temperament to sustain deviant gambling behaviour. We expect the pattern of dependencies will be complex. To assert baldly that mere knowledge of theoretical long-run probabilities would transform a problem gambler into a responsible gambler smacks of alchemy, not hard science.

Prof. Harvey Marmurek
Department of Psychology

ODDS CODSWALLOP

Prof. David Josephy says gamblers should be given the true odds of winning and losing, presumably in the belief it will change their behaviour. Unfortunately, this is at "odds" with a broad range of research in psychology, economics and health science that has explored people's understanding of the probabilities of risks and rewards. This research generally shows that (1) people don't comprehend what probabilities actually

mean for them, (2) they are bad at estimating the risk/reward payoffs even when they "know" the true odds, and (3) even when they know the odds and implications, this has little impact on the chosen behaviour.

Whether trying to change dietary practices to improve the odds of avoiding heart disease or change sexual behaviours to avoid AIDS, research has shown the persistent resistance of individuals to be swayed by statistics about the odds of an adverse event happening to them.

Consider even some anecdotal evidence. If you ask people who've just come off a plane and are about to drive home which gives them more concern for their safety, most will say the flight. But we all know the true odds of being involved in a car accident are orders of magnitude higher than being in a plane crash.

People also tend to confuse odds with outcomes. For example, a few drivers still refuse to wear seatbelts on the grounds they could be trapped in a car fire after a crash. In reality, the odds of being saved from death or serious injury vastly overshadow the remote possibility of being trapped in a post-crash fire.

As another example, consider how people tend to play roulette. Most ignore the odds and bet on single or small groups of numbers that could return the highest payoff, even though these have the lowest chance of winning.

I agree with Prof. Josephy that we should take every opportunity to give people the best information to aid in their decision-making. But I don't hold much faith that the simple provision of information about the true odds or probabilities of favourable or unfavourable outcomes will change the way people behave. Does Prof. Josephy think that if the leading physics and chemistry journals carried a warning in bold print on their cover about the low probability of a successful outcome to a cold fusion experiment, this revelation would prevent those few dedicated cold fusion scientists from furthering their research? Would he want to regard them, as he regards other gamblers, as "the least talented... holding... the illusion that they,

too, will one day be fabulously rich."

As an aside, I have often wondered why governments haven't thought more imaginatively about how they could use the public's fondness of gambling to collect income taxes. Why not give us a choice? We could either pay the government the, say, \$1,000 we owe in taxes directly or we could wager \$2,000 at a government-run casino. This would, at least in the minds of some individuals, remove one of the two certainties in life — "death and taxes" — in the belief that the odds favour them to beat the taxman.

Prof. Michael Matthews
Department of Psychology

GOOD SCIENCE NEEDED IN CANOLA CASE

I have been following discussions in the *Guelph Mercury* related to pesticide use, genetically modified plants (the new biotech), and the arguments are, by and large, confused. There are political aspects, business aspects and science aspects. I would like to address the science aspects because once they're clarified, we can come to grips with the others.

Let's look at the case of Percy Schmeiser, a Saskatchewan farmer who has spent 50 years working on the canola project, our project, a Canadian project. He is a Canadian hero, with good points and bad, like us all. He is willing to risk his farm and his pension to save our crop, and we sit back and watch. I have written to Industry Minister Allan Rock about Schmeiser's case and have had a reply, a bureaucratic reply. The government is in no hurry.

The case against Schmeiser will be heard in June. I and others on the GE Alert Web site that has been set up by the Council of Canadians are doing our level best to see that the public is aware of the seriousness of the issue, serious not only for Canadian farming but also for farming in general.

In a sense, it is not I or GE Alert that should be taking up this issue. It should be scientists at the University of Guelph. There are science issues that need to be solved, not just political or economic issues. A major question is how serious is pollen drift? We must have the answer

somewhere. Rape, the ancestor of canola, must be grown a certain distance from canola plots or the poisons in rape would be reintroduced into canola and we would lose 15 years of good Canadian research, research paid for by the Canadian taxpayer that resulted in a billion-dollar success story. Our investment was returned 100-fold.

We have lost that effort by the introduction of Round-Up Ready canola in the Canadian Prairies because customers in our major markets in Europe and Japan don't want to buy seed from genetically modified canola. That's an economic question, not ours to answer. What we should be establishing is the importance of pollen drift. And the importance of seed dormancy. Have we really created a new weed, a canola variety that is resistant to Round-Up that will grow in successive years where it is not wanted, a problem reminiscent of dormant wild oats?

Common guys come up with real solutions to scientific problems. That's the way science used to work.

In a recent letter to @Guelph, Prof. John McMurtry, Philosophy, said he was ashamed of U of G and its administrators. I am ashamed of my colleagues who claim to do research in the plant sciences related to agriculture.

Administrators are not necessarily trained in science. They depend on advice from active bench/field scientists. Are they getting that advice? Are they listening? Discussion/back and forth/experiments/ discussion. That's how science moves ahead. And in this thorny issue, that's what's needed — good science.

Prof. Ann Oaks, FRSC
Professor Emerita
McMaster University

SHOULD NOT HAVE BEEN LISTED AS A VOLUNTEER

While reading the list of campus community campaign volunteers in the last issue of @Guelph, I was surprised to find my name listed as a retiree volunteer. Surprised, because although I was invited to be a volunteer, I declined. Please correct the record on my behalf.

Sheila Trainer-McCutcheon

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Correction

IN THE MAY 8 article about the University Instructional Design Awards, the recipients of the award for the course "Biomedicine 3120" should have been listed as Prof. William Harris, Biomedical Sciences, and Prof. Rod Gentry, Mathematics and Statistics.

@GUELPH PUBLICATION SCHEDULE

Publication Date Deadline

June 5 May 28

June 19 June 11

Fellowship in Ulster-Scots Studies Established

Increasing people's understanding of Ireland as a land of diverse communities, heritages and cultures is seen as a way to help heal sectarian divisions

THE UNIVERSITY of Guelph's reputation as a premier international centre for Scottish studies has been reaffirmed with funding for research that could help promote peace in Northern Ireland.

A post-doctoral fellowship in Ulster-Scots studies, worth \$25,000 annually for three years, has been established at Guelph to explore the history of Scottish settlement in Ulster and abroad. It will be held by Scott Moir, who earned his PhD in Scottish studies at Guelph this spring.

The fellowship is funded by Northern Ireland's Ulster-Scots Agency and the University of Ulster's Institute of Ulster-Scots Studies, which were both created under the provisions of Northern Ireland's 1998 peace accord, known as the Good Friday Agreement.

Under the agreement, the agency and the institute "have a special mandate to provide and encourage an understanding of the plurality of cultures and cultural heritages in Ireland, including the very important contribution Scots have made in Ireland and in the wider world," says Prof. Kevin James, History, chair of U of G's Scottish studies program.

"They are attempting to show the diversity of groups and cultures in Northern Ireland, rather than only two: (British) unionist and Irish nationalist."

Increasing people's understanding of Ireland as a land of diverse communities, heritages and cultures is seen as a way to help heal the sectarian divisions that have bred vio-

lence in the north, James says.

"The interest in the complex cultural development of Ireland has won the support of groups in Irish society that hold differing views about the union," he says. "It's shaking things up."

The Ulster-Scots, in particular, were identified as a group deserving of promotion and greater understanding and support because tens of thousands of Scots migrated to the nine counties of Ulster in the 1700s.

Moir says his PhD research on the lives of people in Scotland from the late 16th to mid-17th centuries forms a useful basis for the studies he will now undertake on Ulster-Scots history.

"It's a chance to look at another Celtic community in the same era and see how it responds."

The U of G fellowship came about after the Lord Laird of Artigarvan, chair of the Ulster-Scots Agency, visited the campus in January 2001 to check out positive reports on Guelph's reputation in Scottish studies, James says.

"He was interested in developing partnerships with institutions in Canada, the United States, Australia, New Zealand, South Africa and Scotland that have an interest in Scottish history in particular and in interactions between Scottish and Irish populations and society."

The Lord Laird met with James and other University officials and toured Guelph's extensive collection of Scottish archival materials. His trip was followed by visits from the head of the Academy of Irish Cul-

tural Heritage and several officials from the University of Ulster.

It was clear to all that Guelph's program was a natural fit, James says.

"It's exciting to see our Scottish studies program recognized as one of the leading partnerships in this enterprise and chosen as a base in North America for the study of the

Ulster-Scots. It's a tremendous development and one that confirms Guelph's profile as a centre for Scottish studies worldwide."

The partnership links Guelph with other academic centres in Canada, Australia, New Zealand, Scotland and the United States for Ulster-Scots research.

Both James and Moir will visit

Ireland for research and to exchange ideas with their new colleagues. James will visit the University of Ulster's Londonderry campus later this month, as part of its Canada-Ulster Week, to speak about Scots in Canada. Moir is planning a research trip there next winter.

BY STACEY CURRY GUNN

Campus Steam System to Shut Down for Two Weeks

Hot water won't be available on east side of Gordon Street

PHYSICAL RESOURCES will carry out a complete shutdown of the steam system for all campus buildings on the east side of Gordon Street June 23 to July 7. During this time, there will be no centrally produced steam available for building systems or domestic hot water for showers, swimming pools, laboratories, food preparation and autoclaves/sterilizers that are connected to the central steam distribution system.

The shutdown is needed to allow Physical Resources to do an inspection of the Central Utilities Plant (CUP) exhaust stack and to complete essential repairs to the stack, says Martin Hodgson, manager of mechanical design services. The shutdown is also required to enable Physical Resources to install an

energy-conserving heat-recovery system in the CUP that will allow the University to use exhaust gas from the existing boilers to provide all heat for the new classroom complex and to reduce natural gas use on campus. Physical Resources will take advantage of this shutdown period to complete other necessary repairs in the steam tunnels and the swimming pools, he says.

Hodgson notes that Physical Resources staff worked with units across campus throughout the winter to implement contingency plans to reduce the disruption to the campus community and to ensure that all appropriate health and safety requirements are in place. "The co-operation of the campus community in dealing with this essential shutdown has been appreciated."

Some temporary hot water heaters will be supplied to Hospitality Services for its food-service operations, he adds. During the shutdown period, Hospitality Services will be using disposable dishware in all of its operations on the east side of campus.

The Athletics Department has notified users that there will be a disruption to its services. Shower facilities will be available in the arena throughout the shutdown period, but not in the gym.

The shutdown will begin at 1 p.m. June 23 and continue until late afternoon July 7. For more information, contact Hodgson at Ext. 3308 or martin@pr.uoguelph.ca or Paul Specht, director of maintenance operations, at Ext. 3306 or paulsp@pr.uoguelph.ca.

NSERC Partners With CPES to Fund Spectrometer

New instrument is first of its kind for studying biological systems at U of G

A NEW SCIENTIFIC instrument arriving at Guelph later this year will help researchers in the biological sciences understand the workings of molecules important in a variety of applications, including aspects of cell biology, medicine and human health, says Prof. Rod Merrill, Chemistry and Biochemistry.

The first of its kind for studying biological systems at U of G, the new instrument has been funded mostly by a \$173,000 grant from the Natural Sciences and Engineering Research Council (NSERC) and money from the Department of Chemistry and Biochemistry and the College of Physical and Engineering Science.

Equipped with a laser light source for both ultraviolet and visible excitation, this fluorescence lifetime spectrometer measures the rate of light emission (fluorescence decay) from naturally fluorescent molecules or from molecules tagged with special fluorescent tags or probes.

Fluorescence lifetime is the average time a molecule spends in the excited state before emitting a photon and returning to the ground state, explains Merrill.

"In a molecular sense, the fluorescence lifetime is ephemeral, lasting no more than thousandths to trillionths of a second. But this spectrometer is sensitive enough to capture photons emitted from a fluorescent probe dur-

ing such fleeting events as enzyme conformational changes during reactions, molecules travelling across a cell membrane or drugs interacting with a target receptor."

Measuring those specific molecular events with a steady-state instrument is impossible, says Merrill, who was the lead researcher on the NSERC grant application.

"You need an instrument that can measure the rate of the fluorescence decay process in order to peer into molecular events involving biomembranes, enzymes, photosynthetic systems, protein folding, secondary structure and interactions in nucleic acids and even tissue malignancy."

Merrill studies a bacterial membrane-associated protein that selectively permits ions to exit from the host target bacterial cell, affecting the membrane surface potential. He's interested in determining the structure of this ion channel and in understanding how these ion channels work.

"In many ways, this ion channel serves as a model for other more complicated channels, including sodium channels that help transmit nerve impulses along axons and calcium channels in heart tissue," he says.

In another project, his studies of a bacterial enzyme produced by the human pathogenic bacterium *Pseudomonas aeruginosa* might help in developing drugs to thwart this bug, whose opportunistic behaviour and resistance to anti-

biotics make it an infection threat in hospitals.

"Many proteins lend themselves more readily to spectroscopy than to standard X-ray diffraction used for studying 3-D shapes of molecules," Merrill says.

His co-applicants for the NSERC funding were Profs. Frances Sharom, Chemistry and Biochemistry; Prof. George Harauz, Molecular Biology and Genetics; newly appointed physics professor Leonid Brown; and University of Waterloo chemistry professor Michael Palmer.

Sharom will use the fluorescence spectrometer to study a transporter molecule that hinders cancer treatment by pumping tumour-fighting drugs out of cells. She hopes to find a way to counteract that natural pump, allowing the drugs to do their work.

Brown plans to use the instrument to look more closely at a retinol-binding protein important in vision. Harauz will investigate a key protein in the myelin sheath around nerve fibres that allows normal transmission of signals but degrades during multiple sclerosis. Palmer will study the intoxication mechanism of bacterial toxins that cause disease by forming large holes or pores in eukaryotic cell membranes.

Other potential uses for the new instrument include studying the specific molecular steps during protein folding and interactions between proteins and antibodies; measuring distances within a protein, between proteins or between proteins and a membrane surface; and

the dynamics and structure of nucleic acids.

Merrill says having the instrument here at Guelph will make it easier and more convenient for U of G scientists who have traditionally had to travel to other cities to use such equipment.

He expects the instrument to be up and running by late summer. It will initially be housed with other laser equipment in the MacNaughton Building, but will eventually be moved to a laser facility in the new science complex. Research associate Gerry Prentice will run the instrument.

Merrill led the application based on his experience with using fluorescence spectroscopy at the National Research Council in Ottawa, where he used the technique to study biological systems.

"Spectroscopy is generally something a chemist or a physicist might use," he says, "but we are now witnessing its applications to investigate complex biological problems. This includes everything from researchers studying molecules important in medicine to plant scientists investigating photosynthesis."

In recent years, researchers have shifted in their preference to use fluorescence and luminescence techniques rather than radioactive isotope methods traditionally used for tagging molecules, as in DNA sequencing and in tracking proteins in cells, he says.

BY ANDREW VOWLES

Children's Literature 'a Powerful Educational Tool'

CCL is the only university-level periodical dedicated to taking children's literature seriously with a societal, academic and research interest

THE STORYBOOKS and children's tales that Prof. Daniel Chouinard reads and teaches to his students may seem juvenile in content and presentation, but he and his colleagues take children's literature very seriously. Still, after the release of the 100th issue of the world-renowned U of G-published periodical *Canadian Children's Literature (CCL)*, they're still fighting for the respect they believe the study of children's stories deserves.

"Children's literature is a powerful educational tool, and its research is more multifaceted than research in other literatures," says Chouinard, who is director of the School of Languages and Literatures. "Children's literature elicits more reactions because parents and parent-teacher associations make the decisions to buy the books that are read by children, their grandparents and caregivers. To research children's literature, we need to use sociology, psychology, education and history, as well as

many more disciplines."

CCL's editors dedicate each issue to a chosen theme. Chouinard says contributors write full-length research articles that put classic and contemporary children's tales and their authors into contexts that relate to contemporary issues and debates — just like adult literature research. Articles relate certain tales or genres to popular culture or varying perspectives such as feminism, post-colonialism and post-modernism. Special issues in the past have dis-

cussed the relationship of children's literature to censorship and even the Holocaust. Many people mistakenly believe children's literature is exempted from such heavy issues, Chouinard says.

"Children's authors often take on the difficult task of representing history, but in a way that is suitable or palatable for children."

The periodical was born in 1975 with U of G's acquisition of Lucy Maud Montgomery documents and with a mandate to make Canadian children's literature known around the world.

Now, although the publication focuses mainly on literature in Canada, it boasts subscribers and contributors in countries around the world, including Holland, France, Poland and Bulgaria.

"Originally, we were printing stories about almost anything that was being published in the field," says

Chouinard. "Now, the quality and quantity of English-language and French-language Canadian children's literature is extraordinary. There is a vast selection, and as stories are increasingly marketed by multinational corporations, it's even more interesting to research them in a social and political context."

Universities across Canada offer courses in the study of children's literature, but *CCL* is the only university-level periodical that is dedicated to taking children's literature seriously with a societal, academic and research interest. The publication is fully bilingual and averages 100 to 120 pages per quarterly issue.

Funding for *CCL* has been provided by the Social Sciences and Humanities Research Council.

BY LISA CAINES
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IN THE NEWS

Editor's note: This column will appear regularly in *@Guelph* and will highlight U of G researchers who have appeared in national newspapers or on national television or radio programs promoting their work. Submissions for this column can be sent to lhunt@exec.uoguelph.ca.

Research by Prof. Doug Larson, Botany, and graduate student Michele McMillan on the harmful effects of rock climbing was featured in the *Toronto Star* April 1 and in numerous newspapers across Canada. The researchers also appeared on CBC Radio's *Quirks and Quarks* April 13.

Massimo Marcone of the Department of Food Science was featured on several CBC Radio programs April 9 talking about attempts to save rare plants from extinction.

Prof. Bill Christian, Political Science, was featured on several CBC Radio programs April 11, discussing the history of the Unite the Right movement in Canada.

Prof. Stephen Henighan, Languages and Literatures, and his new book of critical essays were the subject of a full-page article in the April 14 *Toronto Star*.

Prof. Steven Marshall, Environmental Biology, appeared on CBC Radio's *Ontario Morning* April 16 and on the TV program *Discovery* April 17 to explain the most recent ladybug infestation.

Prof. Meg Thorburn, Population Medicine, wrote an "Over to You" column on her childhood experiences in California for the April 22 edition of *Maclean's* magazine.

Prof. Len Ritter, Centre for Toxicology, appeared on *The National* April 25 discussing the extra label use of veterinary antibiotics and the effect on meat and meat products.

An April 25 *National Post* story on cancer agents in food included comments from Prof. Kelly Meckling-Gill, Human Biology and Nutritional Sciences. She was also featured on several CBC Radio programs and appeared on *The National*.

Research by Prof. Hank Davis, Psychology, and student Emily Heslop on whether giant cockroaches can learn to recognize humans was featured in the *Globe and Mail* April 30.

Zoology professor David Noakes was quoted in a May 9 *USA Today* article on science's search for the coelacanth, a prehistoric fish.

Prof. Isabelle Aubert, Clinical Studies, was featured on CTV news May 15 discussing cancer treatment for pets and the growing popularity of pet insurance.

Research by Prof. Barbara Morrongiello, Psychology, on parents and their trust of children's safety gear was featured in the May 16 issue of the *National Post*.

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1991 Toyota pickup; 1996 Geo Tracker; 1993 Nissan Maxima; snowmobile trailer, holds two machines; large dog cage, 843-5220 or sknight@uoguelph.ca.

1993 Nissan Sentra, red, good brakes, tires and exhaust system, 77,000 kilometres, 836-8294.

Aquarium with accessories, stand and fish; chesterfield with matching chair and ottoman, recently reupholstered, like new, 821-5393.

1993 Dodge Grand Caravan LE, fully loaded, seven-passenger seating, excellent condition, will certify, Ext. 5018, brreid@uoguelph.ca or leave message at 831-5135.

Set of 1965 *Encyclopedia Americana* with 30 volumes, 14 update yearbooks; set of 1965 juvenile *Encyclopedia Americana* with 18 volumes, 14 update yearbooks, Marj, 824-1628 or marjbrooks@sympatico.ca.

Apple computers: Power Mac 6100/66, Power Mac 7200/75, Power Mac 6400/180; Apple monitor with integrated speakers; various network interface cards, good for use on campus network, Ext. 6290.

Drum practice pad; Braun hand-blender, used only once, Ext. 6580.

Pentium III for parts: 56K modem, audio card, 3.6 GB hard drive, standard CD-ROM, ATI AGP video card, send e-mail to drey97@yahoo.com.

FOR RENT

Furnished room for grad student or professional, laundry, parking, smoking permitted in room, on bus route, three kilometres from campus, \$550 a month inclusive, first and last months' rent required, flexible lease, Sid, 822-5454.

Loft in new townhouse with furnished bedroom, Gordon/Kortright, sitting room, full bath, shared kitchen, laundry, parking, non-smokers, no pets, mature female preferred, available mid-August to mid-May, Tina, 822-9577.

Basement room, microwave, parking, no pets, non-smoker, mature male preferred, available Sept. 1, 822-3129.

Furnished four-bedroom house, 3½ baths, two fireplaces, study, sun-

room, 20 minutes from campus on 33 acres of rolling meadows and woods, available Sept. 1 for 10 to 12 months, 905-854-4156.

One-bedroom apartment for mature adult on lower level of house, separate entrance, parking, laundry, air, private patio, non-smokers, no pets, available July 1, \$625 a month plus portion of hydro, first and last months' rent required, 823-0331 after 5 p.m.

Room with private bath, shared kitchen, washer/dryer, high-speed Internet, no pets, 10-minute walk to campus, available June 1, \$450 a month inclusive, leave message at 827-9286.

One-bedroom condo suitable for grad student or professional, washer/dryer, newly renovated, close to Stone Road Mall, parking, available July 15, \$725 a month inclusive, 836-5214.

Two-bedroom furnished condo in Cranberry Village, Collingwood, available immediately, 822-3129 or 905-791-7712.

Five-bedroom home, five appliances, 15-minute walk to campus, available immediately, 827-9221 or jrvincen@uoguelph.ca.

Furnished two-bedroom holiday home in Antibes, France, available weekly or monthly; furnished one-bedroom apartment in southwest Paris, Nicole, 836-6745 or finmoll@webtv.net.

Furnished three-bedroom house in south end, central air, available July 1, references required, no pets, \$1,500 a month plus utilities, 821-3707.

Furnished bedroom in three-bedroom house in south end, private bathroom, shared kitchen, laundry, close to bus route, seven-minute drive to campus, available immediately, \$250 a month inclusive for the summer and \$400 a month inclusive from September, Ext. 3320 or 821-6569.

Two-bedroom apartment in country, four-piece bath, separate entrance, private side yard, parking, laundry, 15 minutes to Guelph, non-smokers, professional couple preferred, available July 1, \$995 a month plus utilities; one-bedroom townhouse apartment on two levels, two baths, close to bus route, garage, laundry, non-smokers, no pets, grad student or professional couple preferred, available July 1, \$750 a month plus utilities, 822-3744.

WANTED

Two- or three-bedroom house for professional couple, parking, laundry, no pets, needed immediately for one year, Beth, 905-726-2003 or bamorim@sprint.ca.

Two adult horseback riding helmets, send e-mail to al_cate@hotmail.com.

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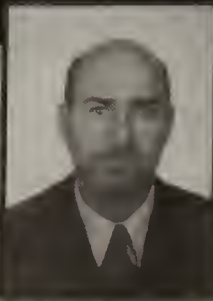
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ARBORETUM

The Arboretum Auxiliary's Sunday afternoon walks continue May 26 with "A Sensational Stroll" and June 2 with "Backyard Wildlife." The walks leave from the Nature Centre at 2 p.m. A donation of \$3 per person is suggested.

Naturalist Chris Earley leads a workshop on "Look, See, Paint" June 12 or 13 from 9 to 11:30 a.m. Cost is \$25. Registration and payment deadline is May 29. A workshop on sketching nature runs June 13 from 1 to 3:30 p.m. Cost is \$20. Registration deadline is May 29.

"Introduction to Birds" is the focus of a workshop with naturalist Chris Earley June 19 from 9 a.m. to 4 p.m. Cost is \$45. Registration and payment are required by June 5.

A lilac tree in the Arboretum's Hospice Wellington Lilac Garden will be dedicated in memory of loved ones May 26 at 2 p.m. The community is welcome.

LECTURE

The Laurentian chapter of the Society of Environmental Toxicology and Chemistry presents author Brenda-Lee Burke discussing "Don't Drink the Water: Risk Perception and Communication in the Walkerton Water Crisis" May 25 at 9 a.m. in the OVC Learning Centre. A book signing will follow the talk. Admission is free, but donations will be collected for the citizens of Walkerton.

NOTICES

The Kenneth Hammond Lecture Series on Environment, Energy and Resources held on campus last fall is being broadcast on CBC Radio's *Ideas* program this month. The series wraps up May 24 at 9:05 p.m. with former Guelph zoology professor Dave Lavigne discussing "Ecological Footprints, Doublespeak and the Evolution of the Machiavellian Mind."

The Guelph Centre for Organizational Research Inc., a not-for-profit human resource management consulting firm, seeks two individuals to join its board of directors. For more information, contact executive director Diane Green at dgreen@omsconsult.com or 767-5072.

The Stress Management and High Performance Clinic is offering a better sleep program beginning May 28. It meets Tuesdays at 5:30 p.m. in UC 441. Cost is \$20 for U of G students, \$50 for others. For more information, call Ext. 2662 or visit the Web site www.uoguelph.ca/~ksomers.

Do you see colours when looking at numbers or letters? If so, researchers in the Department of Psychology would like to talk to you about a study they are conducting. For more information, contact Prof. Dan Meegan at Ext. 4998 or dmeegan@uoguelph.ca.

THESIS DEFENCES

The final examination of M.Sc. candidate Kimberly Holloway, Pathobi-

ology, is May 24 at 9 a.m. in Pathobiology 101. The thesis is "Regulation of Stx2f Synthesis in *Escherichia coli* Strain H.I.8." The adviser is Prof. Carlton Gyles.

The final examination of M.A. candidate Natalie Osterberg, Philosophy, is May 24 at 10 a.m. in MacKinnon 261. The thesis is "Biology and Self: Rolston and Naess on the Intrinsic Value of the Environment." The adviser is Prof. David Castle.

The final examination of M.Sc. candidate Marilyn Jankevicius, Animal and Poultry Science, is May 27 at 9 a.m. in Food Science 128. The thesis is "The Effect of Adrenocorticotrophic Hormone on Salt Appetite in Growing Pigs: Implications for Tail-Biting." The adviser is Prof. Tina Widowski.

The final examination of Agrícola Odoi, a PhD candidate in the Department of Population Medicine, is June 3 at 1:30 p.m. in OVC 1715. The thesis is "A Spatial Epidemiologic Study of Giardiasis Cases Reported in Southern Ontario, 1990 to 1998." The adviser is Prof. Wayne Martin.

The final examination of PhD candidate Glenn Benoy, Zoology, is June 5 at 2 p.m. in Axelrod 265A. The thesis is "Community Consequences of Indirect Interactions Between Waterfowl and Tiger Salamanders in Prairie Potholes." The adviser is Prof. Tom Nudds.

The final examination of Farah

Thong, a PhD candidate in the Department of Human Biology and Nutritional Sciences, is June 10 at 1:30 p.m. in Animal Science and Nutrition 336. The thesis is "Insulin Regulation of Glucose Transport in Skeletal Muscle: Influence of Caffeine, Adenosine and Epinephrine." The adviser is Prof. Terry Graham.

WORKSHOPS

Computing and Communications Services presents workshops for graduate students on "Enterprise Guide for SAS" May 22, "Introduction to SAS" May 23, "SAS REG/CORR: Regression and Correlation Analysis in SAS" May 24, "PROC GLM/PROC MIXED: General Linear Model Analysis in SAS" May 24, "Introduction to SPSS" June 3, "SPSS Means Comparison" June 3 and "SPSS Factor Analysis" June 4. For more information, visit the Web site www.uoguelph.ca/css.

COMMUNITY EVENTS

The Wellington County Historical Society will hold its annual general meeting June 3 at 7 p.m. at the Wellington County Museum and Archives. Guest speaker Prof. Catharine Wilson, History, will discuss work bees.

The Waterloo-Wellington Wildflower Society's annual sale of native perennials is May 25 from 7 a.m. to noon at the Guelph Farmers' Market.

Guelph-Wellington Women in Crisis holds its annual fundraising Lob-

ster Fest June 2 from 1 to 5 p.m. at Cox Creek Cellars Estate Winery. The event includes a winery tour and tasting and live Celtic music. Tickets are available at Kamil Juices and Barber Glass Gallery.

The Guelph Spring Festival's 35th season honours Guelph as the City of Music from May 24 to June 2. Performances will feature choral, chamber and jazz/world music. Information and tickets are available at the River Run box office, 763-3000, and on the Web at www.guelphspringfestival.org.

The Guelph Arts Council's annual historical walking tours of downtown Guelph run Sundays at 2 p.m. Cost is \$2. For more information, call 836-3280.

Victory Public School on Exhibition Street holds its annual dessert party and fun fair May 30 from 5:30 to 8 p.m. All proceeds go to support the school's programs.

OPIRG-Guelph is hosting a Dandelion Festival May 26 from noon to 4 p.m. at Riverside Park. The event features pesticide-free, environmentally friendly activities and exhibits, as well as musical entertainment.

The next meeting of the Wellington County branch of the Ontario Genealogical Society is May 28 at 7 p.m. at the Unitarian Church, 122 Harris St. Guest speaker Laura Hanowski of the Saskatchewan Genealogical Society will discuss "Canada/U.S. Border Immigration Records or Westward Settlement."

Physicists, Microbiologist Combine Expertise

Trio receives inaugural funding from new provincial research network designed to find, develop and promote the use of new materials

WHAT CONNECTS a physicist's work on thin-film polymers with a microbiologist studying bacterial colonies?

Two Guelph faculty members will collaborate on small-scale aspects of physical and biological materials under a newly funded partnership that might result in anything from a "lab on a chip" to methods for keeping hospital catheters and municipal water pipes alike working efficiently.

Profs. John Dutcher, Physics, and Terry Beveridge, Microbiology, are among a trio of Ontario researchers to receive inaugural funding from a new provincial research network designed to find, develop and promote the use of new materials.

"Terry has expertise in microbiology and the physical properties of bacteria, which is especially important in understanding bacteria when they grow as biofilms," says Dutcher. "I have a lot of expertise in the physical properties of thin films of polymer molecules. The idea is to combine our expertise to learn

something new."

The project extends their existing research collaboration through Guelph's Centre for Food and Soft Materials Science. It also involves Gary Slater, a physicist at the University of Ottawa, who studies simulations of interactions among adhesion of polymers, biological molecules and solid surfaces.

Says Beveridge: "By bringing together a physical surface scientist, a theoretical physicist and a microbiologist, this project will truly have an interdisciplinary approach."

The grant, worth \$85,000 a year for two years, comes from the first competition for the Emerging Materials Knowledge Network under Materials and Manufacturing Ontario, a provincial Centre of Excellence.

Supplemented by funding from the Natural Sciences and Engineering Research Council, the money will support a post-doctoral researcher and graduate student at Guelph, as well as one or two grad students in Ottawa. The project will also involve other grad students already at Guelph under other existing pro-

grams of the researchers and at Ottawa.

"The budget includes money for travel back and forth, so students doing work at Ottawa can visit Guelph to see how experiments are done and students at Guelph can go to Ottawa to see how computer simulations are done," says Dutcher.

The funding network supports research and partnerships in studying novel materials, particularly those without any immediate commercial use.

Despite its "blue sky" aspects, studying thin-film polymers and bacterial films holds out promise in several related fields. How to reduce drag in liquids flowing over surfaces ranging from pipes to tiny capillaries? How to integrate polymers into composite structures? How to control fouling of surfaces by bacterial biofilms?

"The whole project is about modification of existing surfaces with polymers and bacteria," Dutcher says.

Studying fluid flow in extremely small environments is important to

people working on miniaturization, including more sensitive sensors for various biological molecules, he adds. "In the future, it may be possible to take a whole lab and put it on a microchip or even many labs on the same chip."

On a larger scale, modifying surfaces could reduce drag in oil or water pipes to prevent buildup of deposits, including biofilms. The same idea could also apply to medical implants such as catheters and pacemakers, where accumulation of bacteria can lead to infection.

"Biofilms are responsible for approximately 60 per cent of hospital-acquired infection through contamination of implants," Dutcher says.

Beveridge notes that biofilms are a natural growth strategy for microorganisms and they coat almost all natural or artificial surfaces, from sediments in the Speed River to the sides of sewage drains. He hopes these studies will help find a way to penetrate the natural jelly-like substances that encase biofilms and protect them from biocides and antibiotics.

"This would be an enormous breakthrough for the medical and industrial communities and save millions of dollars," he says.

An understanding of polymer-surface interactions is also important in the emerging field of polymer nanocomposites created by incorporating nanoscopic particles or wires into polymers, says Dutcher. "Generally, people are interested in these as a way to reinforce polymers to make them stronger."

He and his fellow researchers work with various companies that might find a way to apply the results of their work.

"We can get them excited about our capabilities," says Dutcher. "Together, we cover a broad range of world-class expertise. Creating that kind of collaboration is appealing, and it's also kind of fun. These are complex systems. They scare a lot of people who are interested in fundamental understanding because they're so complicated, but it's still possible to do nice work in these very rich systems."

BY ANDREW VOWLES